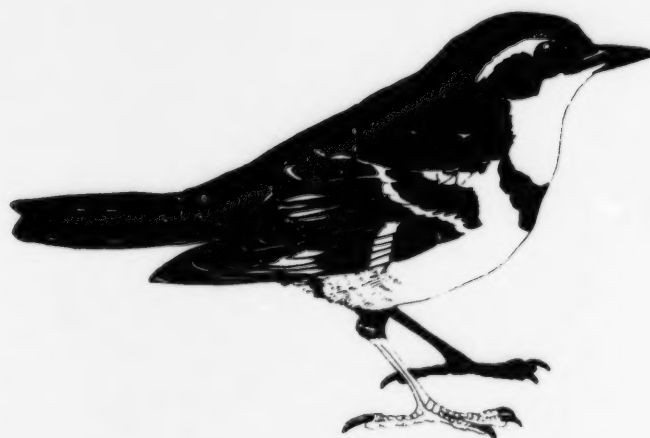


**SUMMARY OF AQUATIC INVERTEBRATE DATA
COLLECTED FROM WETLANDS AT RISKE
CREEK, BRITISH COLUMBIA, 1984 AND 1985**

W. Sean Boyd
Dave W. Smith



TECHNICAL REPORT SERIES No. 60
Pacific and Yukon Region 1989
Canadian Wildlife Service



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Abstract

Aquatic invertebrate sampling was conducted during the summers of 1984 and 1985 on selected wetlands located near Riske Creek, British Columbia. Three sampling techniques were used: activity trap, bottom corer, and sweep net. The resulting data are presented in tables.

Resume

Les invertébrés aquatiques de plans d'eau près de Riske Creek, Colombie Britannique, a furent échantillonnés durant les étés de 1984 et 1985. Trois techniques d'échantillonnage furent utilisées: la trappe à activité, l'échantillonnage du substrat à l'aide d'un carottier, et un balayage par filet. Les résultats obtenus sont présentés sous forme de tableaux.

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1. Introduction

The Canadian Wildlife Service has been conducting research on aquatic bird use of wetlands at Riske Creek, British Columbia, since 1980. In 1983, biotic (plants) and abiotic (morphometry and water chemistry) data were collected from 118 wetlands and subsequently published in a regional report (Boyd and Savard 1987). During 1984 and 1985, we sampled aquatic invertebrates from a subset of those same wetlands. The purpose of this report is to make those invertebrate data, and our sampling methods, available so that others may make use of them when planning research at Riske Creek.

2. Study Area

Riske Creek is located in south-central British Columbia on the Fraser Plateau approximately 40km west of Williams Lake (Figures 1 through 5). The majority of wetlands sampled are located on Becher's Prairie near Riske Creek. That area has one of the highest densities and diversities of water bodies in British Columbia. It is recognized as an important breeding area for waterfowl (McKelvey and Munro 1983). The study area wetlands are relatively shallow and small with narrow strips of emergent, submergent, and some snag (dead tree) zones around their edges.

3. Methods

Aquatic invertebrates were sampled from selected wetlands using 3 techniques: activity traps (Whitman 1974, Murkin *et al.* 1983), bottom corers (Swanson 1978), and sweep nets (Murkin *et al.* 1983). Those techniques permitted the sampling of the full range of free-swimming, bottom-dwelling, and planktonic invertebrates available to aquatic birds. Wetlands were selected by partitioning them into high, medium, and low values for water chemistry (pH, conductivity, and calcium) and aquatic bird use.

FIGURE 1. Wetlands of the Riske
Creek Study Area

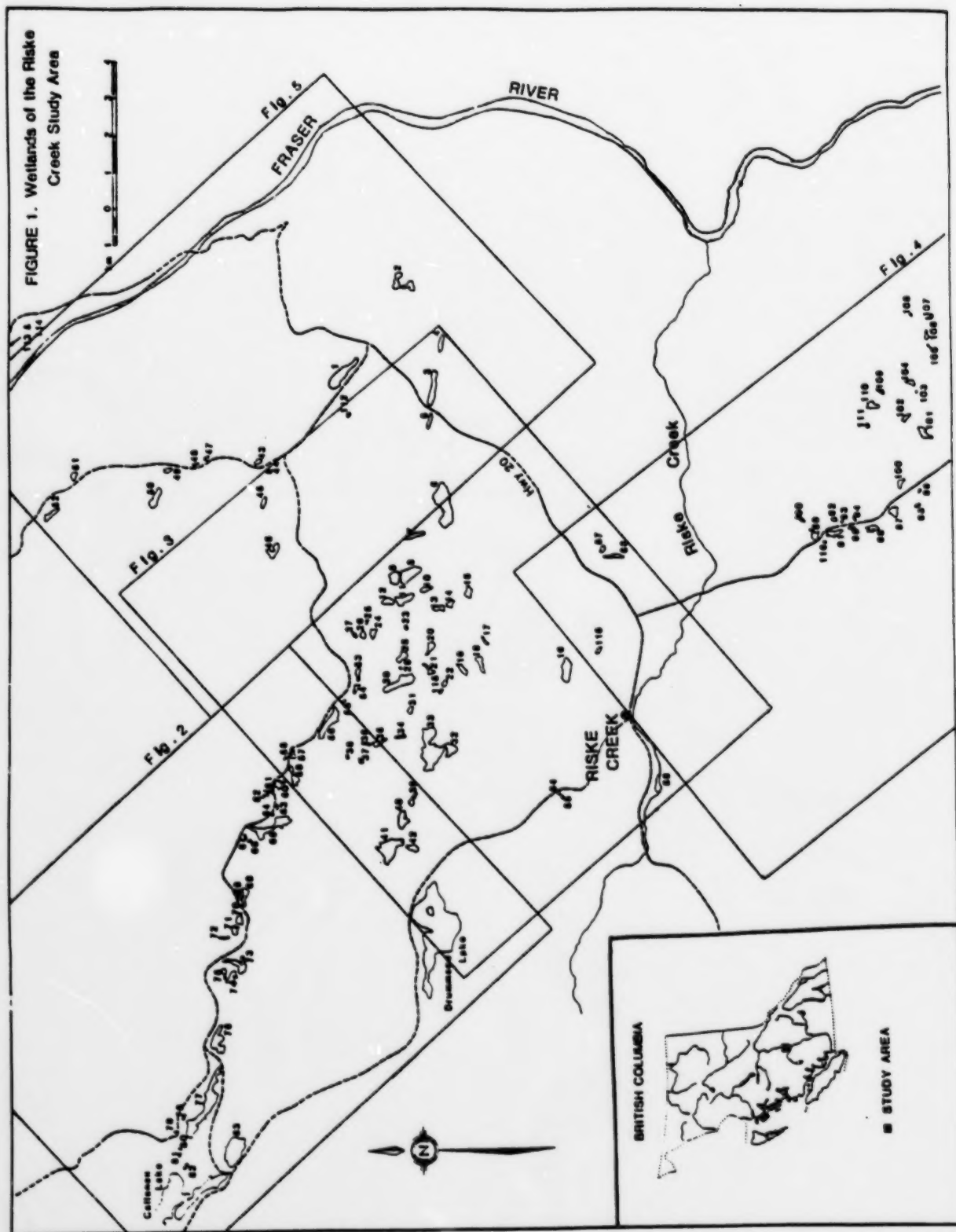
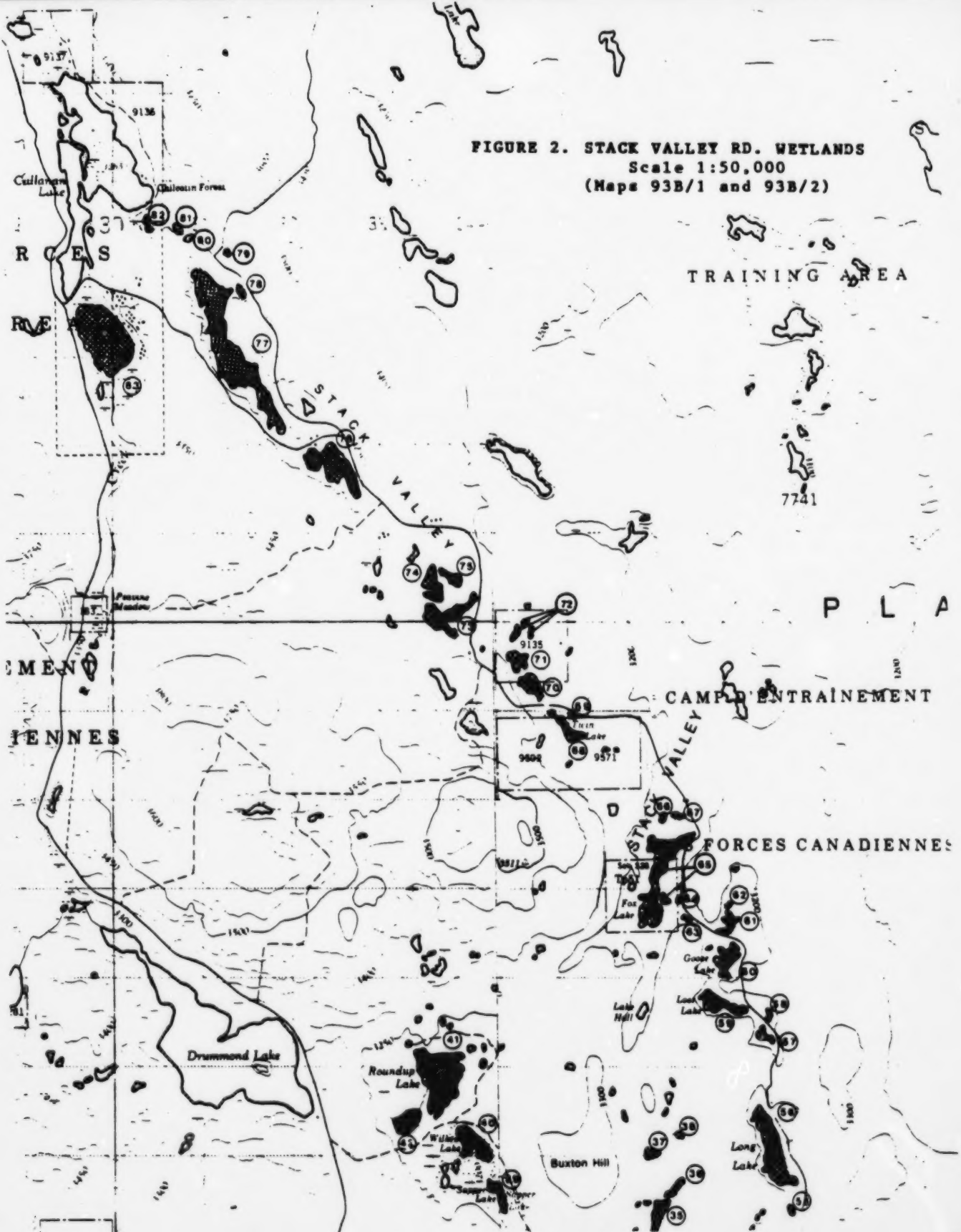


FIGURE 2. STACK VALLEY RD. WETLANDS
 Scale 1:50,000
 (Maps 93B/1 and 93B/2)



This is a detailed topographic map of the Chiloquin area in Oregon. The map features a grid system with horizontal and vertical lines. Key locations and features include:

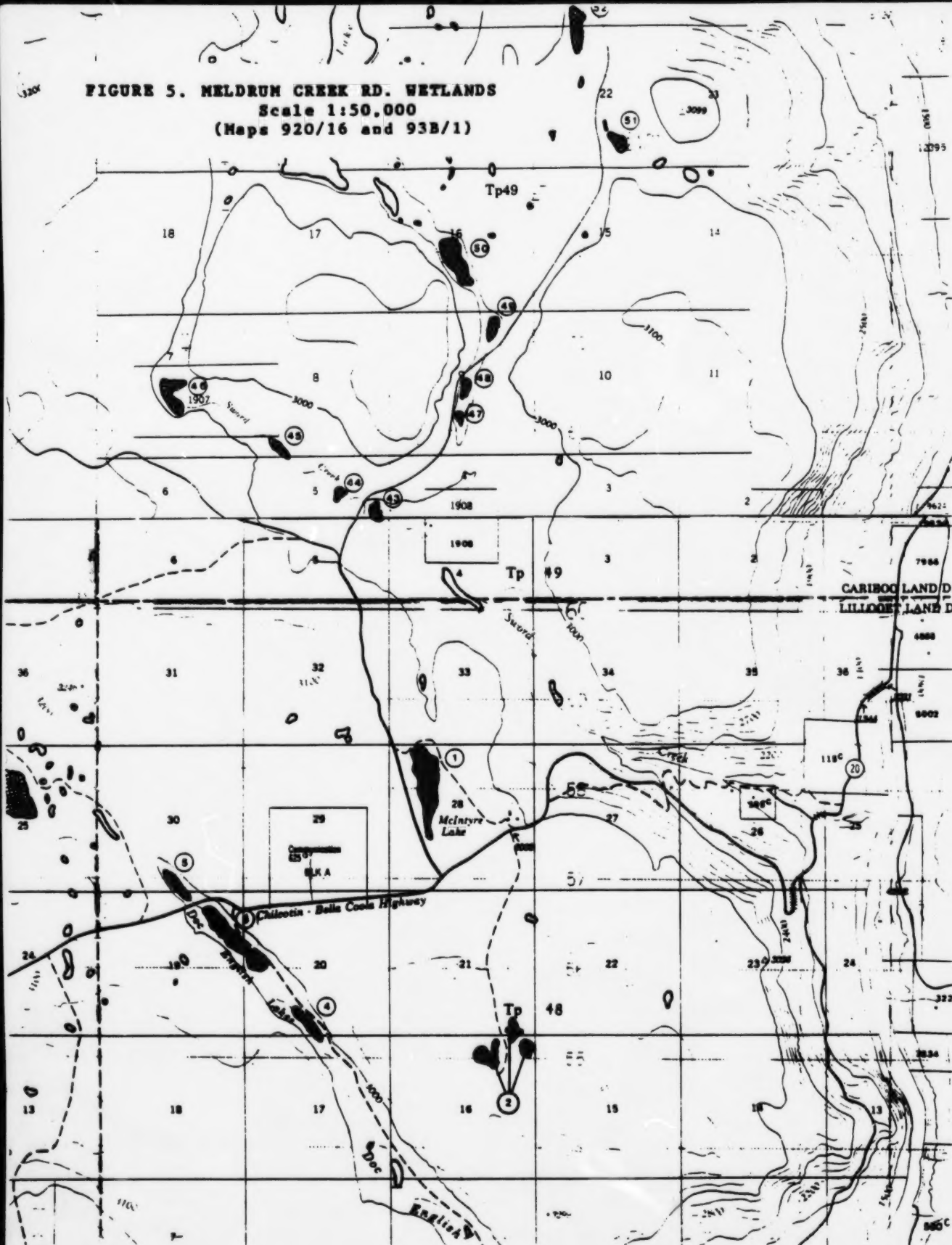
- Chiloquin Indian Reservation:** Labeled in the upper left quadrant.
- Chiloquin Indian Community:** Labeled in the center of the map.
- Chiloquin Indian Cemetery:** Labeled in the lower right quadrant.
- Numbered Points of Interest:** Numerous points are marked with numbers in circles, ranging from 1 to 50. These points are distributed across the map, often near roads or landmarks.
- Topographic Features:** Contour lines are shown throughout the map, indicating elevation. Labels such as "1000", "1200", and "1400" are visible.
- Roads and Paths:** Several roads are depicted, including "Highway 101" and "Road 101".
- Landmarks:** Various landmarks are labeled, including "Chiloquin Indian Cemetery", "Chiloquin Indian Community", and "Chiloquin Indian Reservation".
- Other Labels:** Other labels include "Baptist Meadow", "Chiloquin Indian Cemetery", "Chiloquin Indian Community", and "Chiloquin Indian Reservation".

The map is oriented with North at the top. The grid system consists of horizontal lines labeled 1 through 50 and vertical lines labeled A through H. The map is a black and white reproduction of a topographic map.

FIGURE 4. FARWELL CANYON RD. WETLANDS
 Scale 1:50,000
 (Maps 920/15 and 920/16)

The map displays a topographic representation of the Farwell Canyon Rd. Wetlands area. It features a grid system with numbers 1 through 35. Key geographical features include the Toosey Indian Reserve, labeled in English as 'TOOSEY INDIAN RESERVE' and in French as 'RÉSERVE INDIENNE TOOSEY'. The map also shows 'Tp 50', 'Tp 82', and 'Tp 87'. A scale of 1:50,000 is provided. The map includes contour lines, roads, and various wetland areas. A legend in the top right corner identifies symbols for 'BLK A', 'BLK B', 'BLK C', 'BLK D', 'BLK E', 'BLK F', 'BLK G', 'BLK H', 'BLK I', 'BLK J', 'BLK K', 'BLK L', 'BLK M', 'BLK N', 'BLK O', 'BLK P', 'BLK Q', 'BLK R', 'BLK S', 'BLK T', 'BLK U', 'BLK V', 'BLK W', 'BLK X', 'BLK Y', 'BLK Z', 'BLK AA', 'BLK AB', 'BLK AC', 'BLK AD', 'BLK AE', 'BLK AF', 'BLK AG', 'BLK AH', 'BLK AI', 'BLK AJ', 'BLK AK', 'BLK AL', 'BLK AM', 'BLK AN', 'BLK AO', 'BLK AP', 'BLK AQ', 'BLK AR', 'BLK AS', 'BLK AT', 'BLK AU', 'BLK AV', 'BLK AW', 'BLK AX', 'BLK AY', 'BLK AZ', 'BLK BA', 'BLK BB', 'BLK BC', 'BLK BD', 'BLK BE', 'BLK BF', 'BLK BG', 'BLK BH', 'BLK BI', 'BLK BJ', 'BLK BK', 'BLK BL', 'BLK BM', 'BLK BN', 'BLK BO', 'BLK BP', 'BLK BQ', 'BLK BR', 'BLK BS', 'BLK BT', 'BLK BU', 'BLK BV', 'BLK BW', 'BLK BX', 'BLK BY', 'BLK BZ', 'BLK CA', 'BLK CB', 'BLK CC', 'BLK CD', 'BLK CE', 'BLK CF', 'BLK CG', 'BLK CH', 'BLK CI', 'BLK CJ', 'BLK CK', 'BLK CL', 'BLK CM', 'BLK CN', 'BLK CO', 'BLK CP', 'BLK CQ', 'BLK CR', 'BLK CS', 'BLK CT', 'BLK CU', 'BLK CV', 'BLK CW', 'BLK CX', 'BLK CY', 'BLK CZ', 'BLK DA', 'BLK DB', 'BLK DC', 'BLK DD', 'BLK DE', 'BLK DF', 'BLK DG', 'BLK DH', 'BLK DI', 'BLK DJ', 'BLK DK', 'BLK DL', 'BLK DM', 'BLK DN', 'BLK DO', 'BLK DP', 'BLK DQ', 'BLK DR', 'BLK DS', 'BLK DT', 'BLK DU', 'BLK DV', 'BLK DW', 'BLK DX', 'BLK DY', 'BLK DZ', 'BLK EA', 'BLK EB', 'BLK EC', 'BLK ED', 'BLK EE', 'BLK EF', 'BLK EG', 'BLK EH', 'BLK EI', 'BLK EJ', 'BLK EK', 'BLK EL', 'BLK EM', 'BLK EN', 'BLK EO', 'BLK EP', 'BLK EQ', 'BLK ER', 'BLK ES', 'BLK ET', 'BLK EU', 'BLK EV', 'BLK EW', 'BLK EX', 'BLK EY', 'BLK EZ', 'BLK FA', 'BLK FB', 'BLK FC', 'BLK FD', 'BLK FE', 'BLK FF', 'BLK FG', 'BLK FH', 'BLK FI', 'BLK FJ', 'BLK FK', 'BLK FL', 'BLK FM', 'BLK FN', 'BLK FO', 'BLK FP', 'BLK FQ', 'BLK FR', 'BLK FS', 'BLK FT', 'BLK FU', 'BLK FV', 'BLK FW', 'BLK FX', 'BLK FY', 'BLK FZ', 'BLK GA', 'BLK GB', 'BLK GC', 'BLK GD', 'BLK GE', 'BLK GF', 'BLK GG', 'BLK GH', 'BLK GI', 'BLK GJ', 'BLK GK', 'BLK GL', 'BLK GM', 'BLK GN', 'BLK GO', 'BLK GP', 'BLK GQ', 'BLK GR', 'BLK GS', 'BLK GT', 'BLK GU', 'BLK GV', 'BLK GW', 'BLK GX', 'BLK GY', 'BLK GZ', 'BLK HA', 'BLK HB', 'BLK HC', 'BLK HD', 'BLK HE', 'BLK HF', 'BLK HG', 'BLK HH', 'BLK HI', 'BLK HJ', 'BLK HK', 'BLK HL', 'BLK HM', 'BLK HN', 'BLK HO', 'BLK HP', 'BLK HQ', 'BLK HR', 'BLK HS', 'BLK HT', 'BLK HU', 'BLK HV', 'BLK HW', 'BLK HX', 'BLK HY', 'BLK HZ', 'BLK IA', 'BLK IB', 'BLK IC', 'BLK ID', 'BLK IE', 'BLK IF', 'BLK IG', 'BLK IH', 'BLK II', 'BLK IJ', 'BLK IK', 'BLK IL', 'BLK IM', 'BLK IN', 'BLK IO', 'BLK IP', 'BLK IQ', 'BLK IR', 'BLK IS', 'BLK IT', 'BLK IU', 'BLK IV', 'BLK IW', 'BLK IX', 'BLK IY', 'BLK IZ', 'BLK JA', 'BLK JB', 'BLK JC', 'BLK JD', 'BLK JE', 'BLK JF', 'BLK JG', 'BLK JH', 'BLK JI', 'BLK JJ', 'BLK JK', 'BLK JL', 'BLK JM', 'BLK JN', 'BLK JO', 'BLK JP', 'BLK JQ', 'BLK JR', 'BLK JS', 'BLK JT', 'BLK JU', 'BLK JV', 'BLK JW', 'BLK JX', 'BLK JY', 'BLK JZ', 'BLK KA', 'BLK KB', 'BLK KC', 'BLK KD', 'BLK KE', 'BLK KF', 'BLK KG', 'BLK KH', 'BLK KI', 'BLK KJ', 'BLK KK', 'BLK KL', 'BLK KM', 'BLK KN', 'BLK KO', 'BLK KP', 'BLK KQ', 'BLK KR', 'BLK KS', 'BLK KT', 'BLK KU', 'BLK KV', 'BLK KW', 'BLK KX', 'BLK KY', 'BLK KZ', 'BLK LA', 'BLK LB', 'BLK LC', 'BLK LD', 'BLK LE', 'BLK LF', 'BLK LG', 'BLK LH', 'BLK LI', 'BLK LJ', 'BLK LK', 'BLK LL', 'BLK LM', 'BLK LN', 'BLK LO', 'BLK LP', 'BLK LQ', 'BLK LR', 'BLK LS', 'BLK LT', 'BLK LU', 'BLK LV', 'BLK LW', 'BLK LX', 'BLK LY', 'BLK LZ', 'BLK MA', 'BLK MB', 'BLK MC', 'BLK MD', 'BLK ME', 'BLK MF', 'BLK MG', 'BLK MH', 'BLK MI', 'BLK MJ', 'BLK MK', 'BLK ML', 'BLK MM', 'BLK MN', 'BLK MO', 'BLK MP', 'BLK MQ', 'BLK MR', 'BLK MS', 'BLK MT', 'BLK MU', 'BLK MV', 'BLK MW', 'BLK MX', 'BLK MY', 'BLK MZ', 'BLK NA', 'BLK NB', 'BLK NC', 'BLK ND', 'BLK NE', 'BLK NF', 'BLK NG', 'BLK NH', 'BLK NI', 'BLK NJ', 'BLK NK', 'BLK NL', 'BLK NM', 'BLK NN', 'BLK NO', 'BLK NP', 'BLK NQ', 'BLK NR', 'BLK NS', 'BLK NT', 'BLK NU', 'BLK NV', 'BLK NW', 'BLK NX', 'BLK NY', 'BLK NZ', 'BLK OA', 'BLK OB', 'BLK OC', 'BLK OD', 'BLK OE', 'BLK OF', 'BLK OG', 'BLK OH', 'BLK OI', 'BLK OJ', 'BLK OK', 'BLK OL', 'BLK OM', 'BLK ON', 'BLK OO', 'BLK OP', 'BLK OQ', 'BLK OR', 'BLK OS', 'BLK OT', 'BLK OU', 'BLK OV', 'BLK OW', 'BLK OX', 'BLK OY', 'BLK OZ', 'BLK PA', 'BLK PB', 'BLK PC', 'BLK PD', 'BLK PE', 'BLK PF', 'BLK PG', 'BLK PH', 'BLK PI', 'BLK PJ', 'BLK PK', 'BLK PL', 'BLK PM', 'BLK PN', 'BLK PO', 'BLK PP', 'BLK PQ', 'BLK PR', 'BLK PS', 'BLK PT', 'BLK PU', 'BLK PV', 'BLK PW', 'BLK PX', 'BLK PY', 'BLK PZ', 'BLK QA', 'BLK QB', 'BLK QC', 'BLK QD', 'BLK QE', 'BLK QF', 'BLK QG', 'BLK QH', 'BLK QI', 'BLK QJ', 'BLK QK', 'BLK QL', 'BLK QM', 'BLK QN', 'BLK QO', 'BLK QP', 'BLK QQ', 'BLK QR', 'BLK QS', 'BLK QT', 'BLK QU', 'BLK QV', 'BLK QW', 'BLK QX', 'BLK QY', 'BLK QZ', 'BLK RA', 'BLK RB', 'BLK RC', 'BLK RD', 'BLK RE', 'BLK RF', 'BLK RG', 'BLK RH', 'BLK RI', 'BLK RJ', 'BLK RK', 'BLK RL', 'BLK RM', 'BLK RN', 'BLK RO', 'BLK RP', 'BLK RQ', 'BLK RR', 'BLK RS', 'BLK RT', 'BLK RU', 'BLK RV', 'BLK RW', 'BLK RX', 'BLK RY', 'BLK RZ', 'BLK SA', 'BLK SB', 'BLK SC', 'BLK SD', 'BLK SE', 'BLK SF', 'BLK SG', 'BLK SH', 'BLK SI', 'BLK SJ', 'BLK SK', 'BLK SL', 'BLK SM', 'BLK SN', 'BLK SO', 'BLK SP', 'BLK SQ', 'BLK SR', 'BLK SS', 'BLK ST', 'BLK SU', 'BLK SV', 'BLK SW', 'BLK SX', 'BLK SY', 'BLK SZ', 'BLK TA', 'BLK TB', 'BLK TC', 'BLK TD', 'BLK TE', 'BLK TF', 'BLK TG', 'BLK TH', 'BLK TI', 'BLK TJ', 'BLK TK', 'BLK TL', 'BLK TM', 'BLK TN', 'BLK TO', 'BLK TP', 'BLK TQ', 'BLK TR', 'BLK TS', 'BLK TT', 'BLK TU', 'BLK TV', 'BLK TW', 'BLK TX', 'BLK TY', 'BLK TZ', 'BLK UA', 'BLK UB', 'BLK UC', 'BLK UD', 'BLK UE', 'BLK UF', 'BLK UG', 'BLK UH', 'BLK UI', 'BLK UJ', 'BLK UK', 'BLK UL', 'BLK UM', 'BLK UN', 'BLK UO', 'BLK UP', 'BLK UQ', 'BLK UR', 'BLK US', 'BLK UT', 'BLK UU', 'BLK UV', 'BLK UW', 'BLK UX', 'BLK UY', 'BLK UZ', 'BLK VA', 'BLK VB', 'BLK VC', 'BLK VD', 'BLK VE', 'BLK VF', 'BLK VG', 'BLK VH', 'BLK VI', 'BLK VJ', 'BLK VK', 'BLK VL', 'BLK VM', 'BLK VN', 'BLK VO', 'BLK VP', 'BLK VQ', 'BLK VR', 'BLK VS', 'BLK VT', 'BLK VU', 'BLK VV', 'BLK VW', 'BLK VX', 'BLK VY', 'BLK VZ', 'BLK WA', 'BLK WB', 'BLK WC', 'BLK WD', 'BLK WE', 'BLK WF', 'BLK WG', 'BLK WH', 'BLK WI', 'BLK WJ', 'BLK WK', 'BLK WL', 'BLK WM', 'BLK WN', 'BLK WO', 'BLK WP', 'BLK WQ', 'BLK WR', 'BLK WS', 'BLK WT', 'BLK WU', 'BLK WV', 'BLK WW', 'BLK WX', 'BLK WY', 'BLK WZ', 'BLK XA', 'BLK XB', 'BLK XC', 'BLK XD', 'BLK XE', 'BLK XF', 'BLK XG', 'BLK XH', 'BLK XI', 'BLK XJ', 'BLK XK', 'BLK XL', 'BLK XM', 'BLK XN', 'BLK XO', 'BLK XP', 'BLK XQ', 'BLK XR', 'BLK XS', 'BLK XT', 'BLK XU', 'BLK XV', 'BLK XW', 'BLK XX', 'BLK XY', 'BLK XZ', 'BLK YA', 'BLK YB', 'BLK YC', 'BLK YD', 'BLK YE', 'BLK YF', 'BLK YG', 'BLK YH', 'BLK YI', 'BLK YJ', 'BLK YK', 'BLK YL', 'BLK YM', 'BLK YN', 'BLK YO', 'BLK YP', 'BLK YQ', 'BLK YR', 'BLK YS', 'BLK YT', 'BLK YU', 'BLK YV', 'BLK YW', 'BLK YX', 'BLK YY', 'BLK YZ', 'BLK ZA', 'BLK ZB', 'BLK ZC', 'BLK ZD', 'BLK ZE', 'BLK ZF', 'BLK ZG', 'BLK ZH', 'BLK ZI', 'BLK ZJ', 'BLK ZK', 'BLK ZL', 'BLK ZM', 'BLK ZN', 'BLK ZO', 'BLK ZP', 'BLK ZQ', 'BLK ZR', 'BLK ZS', 'BLK ZT', 'BLK ZU', 'BLK ZV', 'BLK ZW', 'BLK ZX', 'BLK ZY', 'BLK ZZ'.

FIGURE 5. MELDRUM CREEK RD. WETLANDS
 Scale 1:50,000
 (Maps 920/16 and 93B/1)



In July 1984, 33 wetlands were sampled and by sweep net procedures only. In June and July 1985, 44 wetlands were sampled using all 3 techniques as described below.

Ten activity traps were used to sample 8 different wetlands. Five sampling stations were distributed at regular intervals around the shoreline of each wetland. At each station, a steel pole was driven into the bottom substrate at 0.5m and, depth permitting, 1.0m water depths. Each pole had an activity trap attached to it which was horizontally oriented and secured 0.3m below the surface. Each activity trap was constructed by securing a large funnel, with rubber straps and hooks, into the mouth of a 4 l white plastic jar. After 24 hours, the contents of each trap were brought to the field lab where all invertebrates were immediately identified to major taxonomic group (using Pennak 1978), counted, and classified by size category (Table 1). Counts were converted to dry weights for selected taxa using conversion factors calculated for wetlands near 100 Mile House, British Columbia (G. Gauthier, pers. commun.; Table 2). Five replicate samples were taken during June and July 1985 on 3 of the 8 wetlands; 4 replicates were taken on the remaining 5 wetlands.

Chironomid larvae were obtained from bottom substrate cores taken at stations spaced around the perimeter of 44 wetlands. Three sampling stations were used on small wetlands (<2 ha) and 4 on large wetlands (>2 ha). At each station, samples were taken at 0.5m and, depth permitting, 1.0m water depths. The coring apparatus was a 1.5m rod with a metal tube (6.5cm diameter by 22cm long) attached. The average core length was 10cm. Core contents were brought to the field lab where they were hand-washed through a 0.5mm screen. All larvae were classified into 0-10mm and 10-20mm size classes and counted. Counts were converted to dry weights. The above procedure was followed twice during June and July 1985.

Sweep net (30cm diameter, 0.5mm mesh) samples were taken from the same 44 wetlands, once in July 1984 and twice in June and July 1985. Four sampling stations were used on small wetlands and 6 on large wetlands. Shoreline sampling stations (3 on small wetlands, 4 on large ones) were spaced near the perimeter of each wetland. At each shoreline station, 4 sweeps were taken at a water depth of 0.5m and 4 sweeps at 1.0m depth (2 just below water surface and 2 near the bottom). Each sweep covered a total of 2.0m distance (1.0m in one direction plus 1.0m in the opposite direction). Deep water sampling stations (1 on small wetlands, 2 on large ones) were located at the centre of each wetland and at each station 2 sweeps were taken near the surface and 2 sweeps at 1.0m depth. Due to the usually large number of organisms in the sweep net samples and to time and manpower limitations, the following abundance categories were used for field recording:

Code	Count Interval	Interval Mean	Code	Count Interval	Interval Mean
1	1	1	8	128-255	192
2	2-3	2.5	9	256-511	384
3	4-7	5.5	10	512-1023	768
4	8-15	11.5	11	1024-2047	1536
5	16-31	23.5	12	2048-4095	3071
6	32-63	47.5	13	4096-8191	4144
7	64-127	95.5	14	8192-16383	12288

Code counts were averaged using the interval means and numbers for selected taxa were converted to dry weights.

4. Results

The invertebrate data are summarized below in Tables 3 through 25. Tables are grouped by sampling technique: Tables 3 to 13 summarize activity trap data, Tables 14 to 19 deal with chironomidae larvae found in bottom core samples, and Tables 20 to 25 summarize the results of our sweep net sampling.

Table 1. Major aquatic invertebrate taxonomic groups and their size classes for Riske Creek, 1985.

Taxon & Size Class		Taxon & Size Class	
Coleoptera larvae	0-10mm	Corixidae	0-5 mm
"	10-20mm	"	5-10mm
"	20-30mm	"	10-15mm
"	30-40mm		
"	40-50mm	Hydracarina	0-5 mm
		"	5-10mm
Anisoptera larvae	0-10mm		
"	10-20mm	Ephemeroptera	0-5 mm
"	20-30mm	"	5-10mm
"	30-40mm		
"	40-50mm	Chaoboridae larvae	
Zygoptera larvae	0-10mm	Diptera pupae	
"	10-20mm		
"	20-30mm	Cladocera	
Trichoptera larvae	0-10mm	Copepoda	
"	10-20mm		
"	20-30mm	Anostraca	
Chironomidae larvae	0-10mm	Gerridae	
"	10-20mm		
		Gyrinidae	
Gastropoda	0-10mm		
"	10-20mm	Collembolla	
"	20-30mm		
		Nematoda	
Hirudinea	20-30mm		
"	30-40mm	Platyhelminthes	
"	40-50mm		
		Annelida	
Coleoptera adult	0-5 mm		
"	5-10mm	Pelecypoda	
"	10-15mm		
"	15-20mm	Curculionidae	
Notonectidae	0-5 mm	Culicidae	
"	5-10mm		
"	10-15mm	Ostracoda	
"	15-20mm		
		Bellastomatidae	
Amphipoda	0-5 mm		
"	5-10mm	Amphibia (tadpoles)	
"	10-15mm		
"	15-20mm		

Table 2. Length interval (mm) to dry weight (mg) conversion factors for selected aquatic invertebrate taxa. (conversion factors supplied by G. Gauthier (unpubl. data)).

Taxonomic Group	10mm Interval Groups				
	0-10mm	10-20mm	20-30mm	30-40mm	40-50mm
Chironomidae larvae	0.47	0.96			
Trichoptera larvae	1.65	19.10	19.10		
Zygoptera larvae	3.27	12.70	12.70		
Anisoptera larvae	2.98	25.10	55.00	221.00	241.00
Hirudinea	2.02	44.20	73.00	109.40	143.90
Coleoptera larvae	2.13	4.82	23.40	63.60	133.40
	5mm Interval Groups				
	0-5mm	5-10mm	10-15mm	15-20mm	20-25mm
Curculionidae	1.39				
Chaoboridae larvae		0.56			
Ephemeroptera larvae	2.38	2.64			
Hydracarina	0.40	2.23			
Corixidae	0.79	4.13	8.44		
Amphipoda	0.90	5.00	10.50	22.60	
Notonectidae	2.07	8.31	20.90	40.90	
Coleoptera adult	2.38	14.50	29.10	82.10	360.00

Table 3. Dry weights (mg) of selected aquatic invertebrate taxa from activity traps set at 0.5m depths for 24 hours in selected Riske Creek wetlands, summer 1985. The selected invertebrate taxa are underlined below.

Wetland Number	Repetitions (Mean $\pm$ SD(n))				
	1	2	3	4	5
13	653.6 $\pm$ 589.1(5)	605.7 $\pm$ 190.0(5)	1285.5 $\pm$ 429.3(5)	863.2 $\pm$ 492.4(5)	852.0 $\pm$ 496.3(20)
15	103.8 $\pm$ 73.0(5)	148.6 $\pm$ 78.0(7)	190.9 $\pm$ 96.4(5)	240.4 $\pm$ 178.1(5)	192.4 $\pm$ 128.6(27)
18	339.2 $\pm$ 77.9(5)	1576.1 $\pm$ 925.6(5)	344.2 $\pm$ 116.0(5)	179.2 $\pm$ 57.8(5)	609.7 $\pm$ 719.4(20)
19	245.0 $\pm$ 156.2(10)*	163.1 $\pm$ 85.0(10)	204.7 $\pm$ 145.4(10)	252.0 $\pm$ 74.7(10)	211.5 $\pm$ 138.2(49)
20	1222.4 $\pm$ 769.4(5)	1024.3 $\pm$ 661.7(5)	1952.7 $\pm$ 1108.8(5)	767.1 $\pm$ 368.0(5)	1141.4 $\pm$ 777.3(25)
28	232.3 $\pm$ 88.6(5)	295.3 $\pm$ 155.9(5)	762.6 $\pm$ 564.1(5)	505.3 $\pm$ 194.9(5)	448.9 $\pm$ 356.4(20)
30	19.5 $\pm$ 10.8(5)	38.6 $\pm$ 43.2(5)	149.7 $\pm$ 158.2(5)	227.1 $\pm$ 112.8(5)	108.7 $\pm$ 126.0(20)
31	289.4 $\pm$ 43.1(5)	317.6 $\pm$ 261.3(5)	242.8 $\pm$ 162.8(5)	259.2 $\pm$ 200.2(5)	277.3 $\pm$ 172.2(20)

* Wetland 19 was 41m deep and all samples were taken at .5m depths.

Taxonomic Groups Considered (Underlined):

CLASS	ORDER	SUB-ORDER	FAMILY
Hirudinea			
Insecta	Ephemeroptera		
	Odonata	Anisoptera	
		Zygoptera	
	Coleoptera-larvae		Circulionidae
	Coleoptera-adulta		
	Trichoptera		
	Diptera		Chadboridae
			Chironomidae
	Hemiptera		Corixidae
Arthropoda			Notonectidae
Arachnida	Amphipoda		
	Hydracarina		

Table 4. Dry weights (mg) of selected aquatic invertebrate taxa from activity traps set at 1.0m depths for 24 hours in selected Risk Creek wetlands, summer 1985. The selected invertebrate taxa are underlined below.

Wetland Number	Repetitions (Mean $\pm$ SD(n))					Total
	1	2	3	4	5	
13	917.9 $\pm$ 379.8(5)	178.9 $\pm$ 98.7(5)	436.8 $\pm$ 111.9(5)	784.5 $\pm$ 289.0(5)		579.5 $\pm$ 376.1(20)
15	124.7 $\pm$ 79.2(5)	94.3 $\pm$ 17.2(3)	55.2 $\pm$ 14.8(5)	11.8 $\pm$ 10.0(4)	142.8 $\pm$ 58.3(5)	88.3 $\pm$ 65.8(22)
18	97.6 $\pm$ 47.9(5)	189.7 $\pm$ 113.9(5)	67.8 $\pm$ 35.2(5)	52.1 $\pm$ 14.7(5)		101.8 $\pm$ 80.7(20)
19	N/A	N/A	N/A	N/A	N/A	N/A
20	1395.1 $\pm$ 826.4(5)	761.8 $\pm$ 464.2(5)	835.0 $\pm$ 327.4(5)	938.5 $\pm$ 478.7(5)	1149.7 $\pm$ 1101.0(5)	1016.0 $\pm$ 680.5(25)
28	31.4 $\pm$ 15.0(5)	47.5 $\pm$ 22.1(4)	240.9 $\pm$ 149.6(5)	691.3 $\pm$ 364.0(5)		263.6 $\pm$ 333.0(19)
30	15.9 $\pm$ 7.5(5)	5.6 $\pm$ 3.1(5)	42.4 $\pm$ 31.1(5)	60.5 $\pm$ 48.8(5)		31.1 $\pm$ 34.8(20)
31	333.3 $\pm$ 152.9(4)	203.2 $\pm$ 55.3(5)	124.5 $\pm$ 63.0(5)	280.6 $\pm$ 196.9(5)		230.2 $\pm$ 143.0(19)

N/A - Wetland 19 was shallow; no 1m depths were available for sampling.

Taxonomic Groups Considered (Underlined):

CLASS	ORDER	SUB-ORDER	FAMILY
Hirudinea			
Insecta	Ephemeroptera	Anisoptera	
	Odonata	Zygoptera	
	Coleoptera-larvae		Circulionidae
	Coleoptera-adulta		Chaoboridae
	Trichoptera		Chironomidae
	Diptera		Corixidae
	Hemiptera		Notonectidae
Arthropoda	Amphipoda		
Arachnida	Hydracarina		

Table 5. Dry weights (mg) of selected aquatic invertebrate taxa from activity traps at 0.5 plus 1.0m depths set for 24 hours in selected Riske Creek wetlands, summer 1985. The selected invertebrate taxa are underlined below.

Wetland Number	Repetitions (Mean $\pm$ SD(n))				
	1	2	3	4	5
13	785.8 $\pm$ 487.6(10)	392.3 $\pm$ 266.4(10)	861.2 $\pm$ 536.3(10)	823.8 $\pm$ 382.9(10)	219.2 $\pm$ 134.3(10)
15	114.2 $\pm$ 72.6(10)	132.3 $\pm$ 69.3(10)	123.0 $\pm$ 96.7(10)	138.8 $\pm$ 174.4(9)	145.6 $\pm$ 116.5(49)
18	218.4 $\pm$ 141.2(10)	882.9 $\pm$ 959.4(10)	206.0 $\pm$ 166.6(10)	115.6 $\pm$ 77.9(10)	355.7 $\pm$ 567.0(40)
19	245.0 $\pm$ 156.2(10)	163.1 $\pm$ 85.0(10)	204.7 $\pm$ 145.4(10)	252.0 $\pm$ 74.7(10)	211.5 $\pm$ 138.2(49)
20	1308.7 $\pm$ 758.2(10)	893.0 $\pm$ 556.3(10)	1393.9 $\pm$ 970.1(10)	852.8 $\pm$ 412.6(10)	1078.7 $\pm$ 725.8(50)
28	131.9 $\pm$ 121.7(10)	185.2 $\pm$ 171.4(9)	501.8 $\pm$ 476.4(10)	598.3 $\pm$ 292.2(10)	358.6 $\pm$ 353.3(39)
30	17.7 $\pm$ 9.0(10)	22.1 $\pm$ 33.7(10)	96.0 $\pm$ 121.5(10)	143.8 $\pm$ 120.1(10)	69.9 $\pm$ 99.4(40)
31	309.0 $\pm$ 101.2(9)	260.4 $\pm$ 188.0(10)	183.7 $\pm$ 132.0(10)	269.9 $\pm$ 187.6(10)	254.4 $\pm$ 158.4(39)

Taxonomic Groups Considered (Underlined):

CLASS	ORDER	SUB-ORDER	FAMILY
<u>Hirudinea</u>	<u>Ephemeroptera</u>		
<u>Insecta</u>	<u>Odonata</u>	<u>Anisoptera</u>	
		<u>Zygoptera</u>	
	<u>Coleoptera-larvae</u>		<u>Circulionidae</u>
	<u>Coleoptera-adults</u>		<u>Chaoboridae</u>
<u>Arthropoda</u>	<u>Trichoptera</u>		<u>Chironomidae</u>
	<u>Diptera</u>		<u>Corixidae</u>
	<u>Hemiptera</u>		<u>Notonectidae</u>
<u>Arachnida</u>	<u>Amphipoda</u>		
	<u>Hydracarina</u>		

Table 6. Mean number($\bar{x} \pm SD$) of aquatic invertebrates, by taxon and size class, from activity traps set for 24 hours in Riske Creek wetland 13, summer 1985.

Taxon and size class	Date (n)			
	05/30(10)	06/03(10)	07/05(10)	07/25(10)
Coleoptera larvae 0-10mm	-	0.2 $\pm$ 0.6	0.3 $\pm$ 0.7	0.1 $\pm$ 0.3
" 10-20mm	-	0.2 $\pm$ 0.4	2.2 $\pm$ 2.5	-
" 20-30mm	0.3 $\pm$ 0.7	0.5 $\pm$ 0.5	1.5 $\pm$ 1.9	0.1 $\pm$ 0.3
" 30-40mm	-	-	2.4 $\pm$ 2.6	0.4 $\pm$ 0.7
" 40-50mm	-	1.4 $\pm$ 1.6	1.2 $\pm$ 1.5	1.1 $\pm$ 1.1
Anisoptera larvae 0-10mm	-	-	-	-
" 10-20mm	-	-	-	-
" 20-30mm	-	-	-	-
" 30-40mm	-	-	-	-
" 40-50mm	-	-	-	-
Zygoptera larvae 0-10mm	0.1 $\pm$ 0.3	-	-	0.3 $\pm$ 0.7
" 10-20mm	-	-	0.3 $\pm$ 0.5	-
" 20-30mm	-	-	-	-
Trichoptera larvae 0-10mm	-	-	-	-
" 10-20mm	-	-	-	-
" 20-30mm	-	-	-	-
Chironomidae larvae 0-10mm	-	-	0.3 $\pm$ 0.7	2.5 $\pm$ 2.6
" 10-20mm	-	-	0.2 $\pm$ 0.4	1.3 $\pm$ 1.2
Gastropoda 0-10mm	-	-	-	0.1 $\pm$ 0.3
" 10-20mm	-	-	-	-
" 20-30mm	-	-	-	-
Hirudinea 20-30mm	-	-	-	-
" 30-40mm	-	-	0.2 $\pm$ 0.4	0.1 $\pm$ 0.3
" 40-50mm	-	-	0.1 $\pm$ 0.3	0.2 $\pm$ 0.4
Coleoptera adult 0-5 mm	0.7 $\pm$ 1.1	-	0.6 $\pm$ 1.3	0.6 $\pm$ 1.0
" 5-10mm	-	0.2 $\pm$ 0.4	-	-
" 10-15mm	0.2 $\pm$ 0.6	-	0.1 $\pm$ 0.3	0.1 $\pm$ 0.3
" 15-20mm	-	0.2 $\pm$ 0.4	0.1 $\pm$ 0.3	0.6 $\pm$ 1.1
Notonectidae 0-5 mm	-	-	0.5 $\pm$ 0.7	-
" 5-10mm	-	0.2 $\pm$ 0.4	2.9 $\pm$ 5.4	-
" 10-15mm	0.2 $\pm$ 0.4	0.7 $\pm$ 1.1	0.7 $\pm$ 1.3	0.7 $\pm$ 1.1
" 15-20mm	-	-	0.1 $\pm$ 0.3	0.7 $\pm$ 1.5
Amphipoda 0-5 mm	6.3 $\pm$ 15.7	1.1 $\pm$ 2.8	17.0 $\pm$ 36.6	2.4 $\pm$ 3.1
" 5-10mm	0.6 $\pm$ 0.7	6.0 $\pm$ 10.1	17.6 $\pm$ 23.2	71.7 $\pm$ 34.4
" 10-15mm	24.2 $\pm$ 33.6	11.3 $\pm$ 6.8	27.1 $\pm$ 23.4	3.8 $\pm$ 3.5
" 15-20mm	22.3 $\pm$ 24.0	0.3 $\pm$ 0.9	-	4.8 $\pm$ 5.1
Corixidae 0-5 mm	-	-	7.1 $\pm$ 9.1	0.7 $\pm$ 0.7
" 5-10mm	-	0.1 $\pm$ 0.3	0.7 $\pm$ 1.1	0.6 $\pm$ 0.7
" 10-15mm	-	-	-	0.1 $\pm$ 0.3
Hydracarina 0-5 mm	-	-	1.6 $\pm$ 1.6	1.7 $\pm$ 2.1
" 5-10mm	-	-	0.6 $\pm$ 1.0	-
Ephemeroptera 0-5 mm	-	-	-	0.3 $\pm$ 0.5
" 5-10mm	-	-	-	0.5 $\pm$ 0.7
Chaoboridae	-	-	5.1 $\pm$ 4.4	7.2 $\pm$ 5.5
Diptera pupae	-	-	18.2 $\pm$ 40.1	-
Cladocera	-	9.0 $\pm$ 19.1	2825.0 $\pm$ 6067.4	502.0 $\pm$ 584.6
Copepoda	-	5.0 $\pm$ 12.7	95.1 $\pm$ 156.4	4.2 $\pm$ 4.4
Anostraca	-	-	-	-
Gerridae	-	-	-	-
Gyrinidae	-	-	-	-
Collembolla	-	-	-	-
Nematoda	-	-	-	-
Platyhelminthes	-	-	-	-
Annelida	-	-	-	-
Pelecypoda	-	-	-	-
Curculionidae	-	-	0.2 $\pm$ 0.4	-
Culicidae	-	-	-	-
Ostracoda	-	-	-	-
Bellastomatidae	-	-	-	-
Amphibia(Tadpole)	-	-	-	-

Table 7. Mean number($\bar{x} \pm SD$) of aquatic invertebrates, by taxon and size class, from activity traps set for 24 hours in Riske Creek wetland 15, summer 1985.

Taxon and size class	Date (n)				
	05/30(10)	06/03(10)	06/05(10)	07/05(9)	07/25(10)
Coleoptera larvae 0-10mm	-	-	0.2 $\pm$ 0.4	-	-
" 10-20mm	-	0.2 $\pm$ 0.4	0.2 $\pm$ 0.4	0.3 $\pm$ 0.7	-
" 20-30mm	-	0.2 $\pm$ 0.4	0.2 $\pm$ 0.6	0.1 $\pm$ 0.3	-
" 30-40mm	-	-	0.1 $\pm$ 0.3	0.1 $\pm$ 0.3	0.2 $\pm$ 0.6
" 40-50mm	-	0.1 $\pm$ 0.3	-	0.6 $\pm$ 1.0	0.1 $\pm$ 0.3
Anisoptera larvae 0-10mm	-	-	-	-	-
" 10-20mm	-	-	-	-	-
" 20-30mm	-	-	-	-	-
" 30-40mm	-	-	-	-	-
" 40-50mm	-	-	-	-	-
Zygoptera larvae 0-10mm	-	-	-	0.1 $\pm$ 0.3	0.2 $\pm$ 0.4
" 10-20mm	-	-	0.1 $\pm$ 0.3	-	-
" 20-30mm	-	-	-	-	-
Trichoptera larvae 0-10mm	-	-	-	-	-
" 10-20mm	-	-	-	-	-
" 20-30mm	-	-	-	-	-
Chironomidae larvae 0-10mm	0.2 $\pm$ 0.6	0.2 $\pm$ 0.4	2.2 $\pm$ 1.3	4.1 $\pm$ 5.9	1.0 $\pm$ 2.0
" 10-20mm	0.1 $\pm$ 0.3	0.2 $\pm$ 0.6	5.2 $\pm$ 6.0	1.3 $\pm$ 1.0	2.1 $\pm$ 1.9
Gastropoda 0-10mm	-	-	-	-	0.1 $\pm$ 0.3
" 10-20mm	-	-	-	-	-
" 20-30mm	-	-	-	-	-
Hirudinea 20-30mm	-	-	-	-	-
" 30-40mm	-	-	-	-	-
" 40-50mm	-	-	-	-	-
Coleoptera adult 0-5 mm	0.3 $\pm$ 0.5	0.1 $\pm$ 0.3	0.2 $\pm$ 0.4	0.1 $\pm$ 0.3	0.1 $\pm$ 0.3
" 5-10mm	0.4 $\pm$ 1.0	0.3 $\pm$ 0.5	2.2 $\pm$ 1.8	0.1 $\pm$ 0.3	0.1 $\pm$ 0.3
" 10-15mm	0.1 $\pm$ 0.3	-	-	-	-
" 15-20mm	-	0.1 $\pm$ 0.3	0.4 $\pm$ 0.7	-	0.1 $\pm$ 0.3
Notonectidae 0-5 mm	-	0.2 $\pm$ 0.6	0.1 $\pm$ 0.3	-	-
" 5-10mm	-	-	0.1 $\pm$ 0.3	1.4 $\pm$ 2.0	7.9 $\pm$ 4.0
" 10-15mm	2.2 $\pm$ 2.7	1.9 $\pm$ 2.4	0.2 $\pm$ 0.4	0.6 $\pm$ 1.0	3.5 $\pm$ 2.6
" 15-20mm	0.9 $\pm$ 1.9	-	-	-	-
Amphipoda 0-5 mm	-	1.2 $\pm$ 2.7	-	0.7 $\pm$ 1.3	0.3 $\pm$ 0.5
" 5-10mm	0.1 $\pm$ 0.3	2.1 $\pm$ 2.6	0.7 $\pm$ 1.6	0.4 $\pm$ 1.0	0.1 $\pm$ 0.3
" 10-15mm	-	0.6 $\pm$ 0.8	-	0.1 $\pm$ 0.3	0.1 $\pm$ 0.3
" 15-20mm	0.2 $\pm$ 0.4	0.3 $\pm$ 0.5	0.1 $\pm$ 0.3	-	0.1 $\pm$ 0.3
Corixidae 0-5 mm	-	0.4 $\pm$ 1.3	-	7.1 $\pm$ 7.4	0.8 $\pm$ 0.8
" 5-10mm	1.2 $\pm$ 1.5	1.1 $\pm$ 1.3	2.0 $\pm$ 1.2	2.8 $\pm$ 2.4	5.0 $\pm$ 5.6
" 10-15mm	-	-	0.3 $\pm$ 0.9	-	0.4 $\pm$ 0.5
Hydracarina 0-5 mm	2.0 $\pm$ 3.0	0.9 $\pm$ 1.2	0.9 $\pm$ 0.7	1.0 $\pm$ 1.0	1.1 $\pm$ 1.2
" 5-10mm	0.1 $\pm$ 0.3	0.1 $\pm$ 0.3	-	-	0.1 $\pm$ 0.3
Ephemeroptera 0-5 mm	-	-	-	-	-
" 5-10mm	-	-	-	-	-
Chaoboridae	19.1 $\pm$ 15.1	53.5 $\pm$ 24.1	28.2 $\pm$ 11.3	4.8 $\pm$ 3.3	21.3 $\pm$ 10.1
Diptera pupae	-	0.1 $\pm$ 0.3	0.2 $\pm$ 0.4	0.2 $\pm$ 0.4	-
Cladocera	-	-	-	0.3 $\pm$ 1.0	-
Copepoda	-	-	0.5 $\pm$ 1.1	0.4 $\pm$ 1.0	-
Anostraca	-	-	-	-	-
Gerridae	-	-	-	-	-
Gyrinidae	-	-	-	-	-
Collembolla	-	-	-	-	-
Nematoda	-	-	-	-	-
Platyhelminthes	-	-	-	-	-
Amelida	-	-	-	-	-
Pelecypoda	-	-	-	-	-
Curculionidae	0.1 $\pm$ 0.3	-	-	-	-
Culicidae	-	-	-	-	-
Ostracoda	-	-	-	-	-
Belostomatidae	-	-	-	-	-
Amphibia(Tadpole)	-	-	-	-	-

Table 8. Mean number ($\bar{x} \pm SD$) of aquatic invertebrates, by taxon and size class, from activity traps set for 24 hours in Riske Creek wetland 18, summer 1985.

Taxon and size class	Date (n)			
	06/07(10)	06/09(10)	07/03(10)	07/28(10)
Coleoptera larvae 0-10mm	0.1 $\pm$ 0.3	-	0.3 $\pm$ 0.5	-
" 10-20mm	-	0.6 $\pm$ 0.8	0.6 $\pm$ 1.1	-
" 20-30mm	0.2 $\pm$ 0.4	0.1 $\pm$ 0.3	-	-
" 30-40mm	0.5 $\pm$ 1.1	0.1 $\pm$ 0.3	-	-
" 40-50mm	-	-	-	-
Anisoptera larvae 0-10mm	-	-	-	-
" 10-20mm	-	-	-	-
" 20-30mm	-	-	-	-
" 30-40mm	-	-	-	-
" 40-50mm	-	-	-	-
Zygoptera larvae 0-10mm	-	0.2 $\pm$ 0.4	1.7 $\pm$ 1.1	-
" 10-20mm	0.2 $\pm$ 0.4	1.7 $\pm$ 1.5	0.9 $\pm$ 1.4	0.2 $\pm$ 0.4
" 20-30mm	0.3 $\pm$ 0.7	0.1 $\pm$ 0.3	-	-
Trichoptera larvae 0-10mm	-	-	-	1.0 $\pm$ 0.9
" 10-20mm	0.2 $\pm$ 0.6	-	-	0.9 $\pm$ 1.0
" 20-30mm	-	-	-	-
Chironomidae larvae 0-10mm	2.4 $\pm$ 2.4	0.4 $\pm$ 0.7	11.2 $\pm$ 12.3	0.5 $\pm$ 0.7
" 10-20mm	0.6 $\pm$ 1.1	0.6 $\pm$ 1.1	0.3 $\pm$ 0.7	1.0 $\pm$ 1.1
Gastropoda 0-10mm	-	-	-	-
" 10-20mm	-	-	-	-
" 20-30mm	-	-	-	-
Hirudinea 20-30mm	-	-	-	-
" 30-40mm	-	-	-	-
" 40-50mm	-	-	-	-
Coleoptera adult 0-5 mm	1.2 $\pm$ 1.3	2.1 $\pm$ 2.2	1.8 $\pm$ 1.5	0.8 $\pm$ 1.3
" 5-10mm	1.6 $\pm$ 2.6	0.5 $\pm$ 0.8	0.2 $\pm$ 0.4	0.1 $\pm$ 0.3
" 10-15mm	0.1 $\pm$ 0.3	0.1 $\pm$ 0.3	-	-
" 15-20mm	-	-	-	-
Notonectidae 0-5 mm	-	-	-	-
" 5-10mm	-	-	0.6 $\pm$ 1.1	0.4 $\pm$ 0.7
" 10-15mm	0.5 $\pm$ 0.7	0.3 $\pm$ 0.7	0.5 $\pm$ 0.8	2.5 $\pm$ 2.3
" 15-20mm	-	-	-	-
Amphipoda 0-5 mm	0.1 $\pm$ 0.3	-	46.8 $\pm$ 69.8	0.3 $\pm$ 0.5
" 5-10mm	24.2 $\pm$ 22.1	162.6 $\pm$ 190.8	20.7 $\pm$ 18.8	2.7 $\pm$ 4.7
" 10-15mm	-	-	-	0.2 $\pm$ 0.4
" 15-20mm	-	-	-	-
Corixidae 0-5 mm	0.8 $\pm$ 1.0	2.4 $\pm$ 4.1	5.5 $\pm$ 6.9	1.1 $\pm$ 1.0
" 5-10mm	0.9 $\pm$ 1.9	1.4 $\pm$ 1.2	1.4 $\pm$ 2.0	1.2 $\pm$ 1.3
" 10-15mm	-	-	-	-
Hydracarina 0-5 mm	8.9 $\pm$ 3.5	7.8 $\pm$ 8.2	1.9 $\pm$ 3.1	7.5 $\pm$ 3.5
" 5-10mm	-	0.2 $\pm$ 0.4	0.2 $\pm$ 0.4	0.1 $\pm$ 0.3
Ephemeroptera 0-5 mm	-	-	-	-
" 5-10mm	-	-	0.1 $\pm$ 0.3	0.1 $\pm$ 0.3
Chaoboridae	1.6 $\pm$ 1.4	1.0 $\pm$ 1.4	-	15.7 $\pm$ 13.2
Diptera pupae	0.7 $\pm$ 0.8	1.0 $\pm$ 1.2	0.1 $\pm$ 0.3	0.2 $\pm$ 0.6
Cladocera	847.0 $\pm$ 1339.2	592.0 $\pm$ 406.7	3434.0 $\pm$ 3753.9	8.5 $\pm$ 8.2
Copepoda	-	-	-	0.5 $\pm$ 0.8
Anostraca	-	-	-	-
Cerioda	-	-	-	-
Gyrinidae	-	-	-	-
Collembolla	-	-	-	-
Nematoda	-	-	-	-
Platyhelminthes	-	-	-	-
Annelida	-	-	-	-
Pelecypoda	-	-	-	-
Curculionidae	-	-	-	-
Qulicidae	-	-	-	-
Ostracoda	-	-	-	-
Ballstonatidae	-	-	-	-
Amphibia(Tadpole)	-	-	-	-

Table 9. Mean number($\bar{x} \pm SD$) of aquatic invertebrates, by taxon and size class, from activity traps set for 24 hours in Riske Creek wetland 19, summer 1985.

Taxon and size class	Date (n)				
	05/30(10)	06/03(10)	06/05(10)	07/05(10)	07/26(9)
Coleoptera larvae 0-10mm	-	-	-	0.1 $\pm$ 0.3	-
" 10-20mm	-	-	-	0.2 $\pm$ 0.4	-
" 20-30mm	-	-	-	0.1 $\pm$ 0.3	-
" 30-40mm	-	-	-	-	-
" 40-50mm	-	-	-	-	0.4 $\pm$ 1.3
Anisoptera larvae 0-10mm	0.1 $\pm$ 0.3	0.1 $\pm$ 0.3	-	-	-
" 10-20mm	-	-	-	-	-
" 20-30mm	-	-	-	-	-
" 30-40mm	-	-	-	-	-
" 40-50mm	0.2 $\pm$ 0.6	-	-	-	-
Zygoptera larvae 0-10mm	0.6 $\pm$ 1.1	0.1 $\pm$ 0.3	0.2 $\pm$ 0.4	2.8 $\pm$ 2.5	3.7 $\pm$ 2.8
" 10-20mm	1.4 $\pm$ 1.7	2.1 $\pm$ 1.9	0.6 $\pm$ 1.1	1.0 $\pm$ 0.8	1.1 $\pm$ 1.8
" 20-30mm	0.2 $\pm$ 0.6	0.2 $\pm$ 0.6	0.1 $\pm$ 0.3	0.3 $\pm$ 0.7	-
Trichoptera larvae 0-10mm	0.1 $\pm$ 0.3	0.1 $\pm$ 0.3	-	-	-
" 10-20mm	0.3 $\pm$ 0.7	-	0.1 $\pm$ 0.3	-	0.1 $\pm$ 0.3
" 20-30mm	-	-	0.1 $\pm$ 0.3	-	-
Chironomidae larvae 0-10mm	0.1 $\pm$ 0.3	-	-	0.6 $\pm$ 0.8	1.6 $\pm$ 1.1
" 10-20mm	-	-	-	-	-
Gastropoda 0-10mm	0.7 $\pm$ 0.8	0.5 $\pm$ 0.7	0.3 $\pm$ 0.7	0.1 $\pm$ 0.3	2.0 $\pm$ 2.3
" 10-20mm	-	0.1 $\pm$ 0.3	-	-	-
" 20-30mm	-	-	-	-	-
Hirudinea 20-30mm	0.1 $\pm$ 0.3	0.1 $\pm$ 0.3	0.2 $\pm$ 0.4	-	0.2 $\pm$ 0.4
" 30-40mm	-	0.6 $\pm$ 1.1	0.1 $\pm$ 0.3	0.1 $\pm$ 0.3	-
" 40-50mm	0.6 $\pm$ 0.8	-	0.2 $\pm$ 0.4	-	-
Coleoptera adult 0-5 mm	1.6 $\pm$ 1.2	1.9 $\pm$ 1.5	1.0 $\pm$ 1.4	1.0 $\pm$ 0.8	1.1 $\pm$ 2.0
" 5-10mm	3.7 $\pm$ 3.1	3.3 $\pm$ 3.1	2.1 $\pm$ 2.0	1.8 $\pm$ 1.6	0.4 $\pm$ 0.7
" 10-15mm	0.2 $\pm$ 0.6	-	-	0.1 $\pm$ 0.3	0.2 $\pm$ 0.4
" 15-20mm	-	0.1 $\pm$ 0.3	0.4 $\pm$ 0.5	0.2 $\pm$ 0.4	-
Notonectidae 0-5 mm	-	-	-	0.1 $\pm$ 0.3	-
" 5-10mm	-	0.1 $\pm$ 0.3	-	0.3 $\pm$ 0.7	3.4 $\pm$ 5.0
" 10-15mm	0.1 $\pm$ 0.3	0.1 $\pm$ 0.3	0.1 $\pm$ 0.3	-	0.6 $\pm$ 0.9
" 15-20mm	-	-	-	-	-
Amphipoda 0-5 mm	-	-	-	2.7 $\pm$ 3.4	1.0 $\pm$ 2.6
" 5-10mm	-	-	0.1 $\pm$ 0.3	1.1 $\pm$ 1.1	0.3 $\pm$ 0.5
" 10-15mm	0.2 $\pm$ 0.6	0.4 $\pm$ 1.0	0.3 $\pm$ 0.7	4.2 $\pm$ 4.7	0.7 $\pm$ 2.0
" 15-20mm	0.6 $\pm$ 1.3	0.2 $\pm$ 0.4	3.5 $\pm$ 3.3	4.2 $\pm$ 2.9	0.3 $\pm$ 0.5
Corixidae 0-5 mm	-	0.6 $\pm$ 1.3	0.1 $\pm$ 0.3	0.6 $\pm$ 0.8	-
" 5-10mm	2.2 $\pm$ 2.6	0.7 $\pm$ 0.9	0.3 $\pm$ 0.9	1.8 $\pm$ 2.3	3.8 $\pm$ 3.2
" 10-15mm	0.2 $\pm$ 0.4	-	-	-	-
Hydracarina 0-5 mm	10.1 $\pm$ 8.8	15.2 $\pm$ 12.2	2.1 $\pm$ 2.6	12.9 $\pm$ 12.4	4.2 $\pm$ 4.9
" 5-10mm	-	-	-	0.8 $\pm$ 0.8	0.7 $\pm$ 0.9
Ephemeroptera 0-5 mm	0.3 $\pm$ 0.5	0.1 $\pm$ 0.3	0.1 $\pm$ 0.3	-	-
" 5-10mm	-	0.1 $\pm$ 0.3	-	0.1 $\pm$ 0.3	-
Chaoboridae	-	0.1 $\pm$ 0.3	-	1.1 $\pm$ 2.1	1.3 $\pm$ 2.5
Diptera pupae	-	-	-	0.1 $\pm$ 0.3	-
Cladocera	14.6 $\pm$ 30.7	29.0 $\pm$ 44.6	8.0 $\pm$ 8.2	14.9 $\pm$ 30.6	2.9 $\pm$ 4.2
Copepoda	131.5 $\pm$ 306.6	37.9 $\pm$ 59.2	19.4 $\pm$ 15.3	20.7 $\pm$ 46.2	2.8 $\pm$ 2.0
Anostraca	-	-	-	-	-
Gerridae	-	-	-	-	-
Gyrinidae	-	-	-	-	-
Collembolla	-	-	-	-	-
Nematoda	-	-	0.2 $\pm$ 0.4	-	-
Platyhelminthes	-	-	-	-	-
Annélida	-	-	-	-	-
Pelecypoda	-	-	-	-	-
Curculionidae	1.2 $\pm$ 1.5	1.9 $\pm$ 2.4	0.3 $\pm$ 0.7	1.4 $\pm$ 2.3	-
Culicidae	-	-	-	-	-
Ostracoda	-	0.8 $\pm$ 1.8	-	0.7 $\pm$ 0.8	0.2 $\pm$ 0.4
Belostomatidae	-	-	-	-	-
Amphibia(Tadpole)	-	37.5 $\pm$ 87.1	0.2 $\pm$ 0.4	2.0 $\pm$ 4.0	-

Table 10. Mean number ($\bar{x} \pm SD$) of aquatic invertebrates, by taxon and size class, from activity traps set for 24 hours in Riske Creek wetland 20, summer 1985.

Taxon and size class	Date (n)				
	05/30(10)	06/03(10)	06/05(10)	07/05(10)	07/25(10)
Coleoptera larvae 0-10mm	0.1 $\pm$ 0.3	0.5 $\pm$ 1.0	0.6 $\pm$ 0.8	3.6 $\pm$ 1.8	0.1 $\pm$ 0.3
" 10-20mm	0.2 $\pm$ 0.4	0.3 $\pm$ 0.7	0.6 $\pm$ 0.8	2.9 $\pm$ 2.3	1.3 $\pm$ 1.2
" 20-30mm	0.3 $\pm$ 0.5	0.3 $\pm$ 0.5	0.3 $\pm$ 0.7	0.1 $\pm$ 0.3	0.1 $\pm$ 0.3
" 30-40mm	-	0.1 $\pm$ 0.3	0.3 $\pm$ 0.5	-	0.1 $\pm$ 0.3
" 40-50mm	-	-	-	0.6 $\pm$ 0.8	-
Anisoptera larvae 0-10mm	-	-	-	-	-
" 10-20mm	-	-	-	-	-
" 20-30mm	-	-	-	-	-
" 30-40mm	-	-	-	-	-
" 40-50mm	-	-	-	-	-
Zygoptera larvae 0-10mm	-	-	-	0.2 $\pm$ 0.4	1.0 $\pm$ 1.4
" 10-20mm	0.5 $\pm$ 1.0	0.1 $\pm$ 0.3	0.5 $\pm$ 0.7	0.8 $\pm$ 0.6	0.1 $\pm$ 0.3
" 20-30mm	1.0 $\pm$ 1.9	-	0.2 $\pm$ 0.6	0.1 $\pm$ 0.3	-
Trichoptera larvae 0-10mm	-	-	-	-	-
" 10-20mm	-	-	-	-	-
" 20-30mm	-	-	-	-	-
Chironomidae larvae 0-10mm	-	0.3 $\pm$ 0.9	4.9 $\pm$ 5.8	13.1 $\pm$ 19.7	0.1 $\pm$ 0.3
" 10-20mm	0.1 $\pm$ 0.3	-	3.9 $\pm$ 2.5	1.2 $\pm$ 1.4	0.2 $\pm$ 0.6
Gastropoda 0-10mm	-	-	-	-	-
" 10-20mm	-	-	-	-	-
" 20-30mm	-	-	-	-	-
Hirudinea 20-30mm	-	-	-	-	-
" 30-40mm	-	-	-	-	-
" 40-50mm	-	-	-	-	-
Coleoptera adult 0-5 mm	3.3 $\pm$ 2.9	2.2 $\pm$ 2.2	0.5 $\pm$ 1.0	1.3 $\pm$ 2.1	2.2 $\pm$ 2.8
" 5-10mm	0.4 $\pm$ 0.8	1.5 $\pm$ 1.3	1.1 $\pm$ 1.2	0.8 $\pm$ 1.5	0.9 $\pm$ 1.1
" 10-15mm	0.1 $\pm$ 0.3	0.1 $\pm$ 0.3	-	-	0.1 $\pm$ 0.3
" 15-20mm	0.1 $\pm$ 0.3	-	0.2 $\pm$ 0.4	-	0.4 $\pm$ 0.7
Notonectidae 0-5 mm	-	0.1 $\pm$ 0.3	-	0.2 $\pm$ 0.4	-
" 5-10mm	-	0.1 $\pm$ 0.3	-	1.2 $\pm$ 1.7	2.1 $\pm$ 2.7
" 10-15mm	0.1 $\pm$ 0.3	0.3 $\pm$ 0.7	-	-	2.4 $\pm$ 2.5
" 15-20mm	0.2 $\pm$ 0.4	-	-	-	0.2 $\pm$ 0.6
Amphipoda 0-5 mm	9.2 $\pm$ 15.7	17.8 $\pm$ 27.6	1.3 $\pm$ 2.8	66.3 $\pm$ 66.1	79.4 $\pm$ 46.9
" 5-10mm	129.4 $\pm$ 106.5	121.9 $\pm$ 87.7	70.4 $\pm$ 40.7	68.7 $\pm$ 72.2	125.5 $\pm$ 134.7
" 10-15mm	28.7 $\pm$ 43.7	16.8 $\pm$ 13.0	31.9 $\pm$ 31.6	17.3 $\pm$ 15.7	2.4 $\pm$ 3.4
" 15-20mm	12.7 $\pm$ 15.9	1.5 $\pm$ 3.8	27.6 $\pm$ 47.7	5.0 $\pm$ 5.1	2.8 $\pm$ 3.4
Corixidae 0-5 mm	0.2 $\pm$ 0.6	0.2 $\pm$ 0.6	-	1.5 $\pm$ 2.5	0.2 $\pm$ 0.4
" 5-10mm	0.3 $\pm$ 0.5	0.4 $\pm$ 0.5	0.1 $\pm$ 0.3	0.7 $\pm$ 0.9	1.3 $\pm$ 1.3
" 10-15mm	-	-	-	-	-
Hydracarina 0-5 mm	-	-	-	0.2 $\pm$ 0.4	1.0 $\pm$ 1.2
" 5-10mm	-	-	-	0.2 $\pm$ 0.4	0.3 $\pm$ 0.5
Ephemeroptera 0-5 mm	-	-	-	-	-
" 5-10mm	-	-	-	-	0.1 $\pm$ 0.3
Chaoboridae	1.1 $\pm$ 1.3	1.2 $\pm$ 1.7	4.7 $\pm$ 7.2	3.3 $\pm$ 6.7	1.9 $\pm$ 2.5
Diptera pupae	-	0.3 $\pm$ 0.5	0.2 $\pm$ 0.4	-	-
Cladocera	7.2 $\pm$ 11.5	171.0 $\pm$ 138.4	1145.0 $\pm$ 1750.6	4880.0 $\pm$ 5197.8	0.5 $\pm$ 1.3
Copepoda	27.0 $\pm$ 41.4	4.0 $\pm$ 12.6	-	-	1.2 $\pm$ 3.2
Anostraca	-	-	-	-	-
Gerridae	-	-	-	-	-
Gyrinidae	-	-	-	-	-
Collembolla	-	-	-	-	-
Nematoda	-	-	-	-	-
Platyhelminthes	-	-	-	-	-
Annelida	-	-	-	-	-
Pelecypoda	-	-	-	-	-
Curculionidae	0.5 $\pm$ 1.3	-	-	-	-
Oulicidae	-	-	-	-	-
Ostracoda	-	-	-	-	-
Belostomatidae	-	-	-	-	-
Amphibia (Tadpole)	-	-	-	-	-

Table 11. Mean number($\bar{x} \pm SD$) of aquatic invertebrates, by taxon and size class from activity traps set for 24 hours in Riske Creek wetland 2B, summer 1985.

Taxon and size class	Date (n)			
	06/06(10)	06/09(9)	07/03(10)	07/28(10)
Coleoptera larvae 0-10mm	0.7 $\pm$ 0.9	0.3 $\pm$ 0.5	0.8 $\pm$ 1.2	0.1 $\pm$ 0.3
" 10-20mm	0.4 $\pm$ 0.7	1.1 $\pm$ 1.6	7.8 $\pm$ 7.9	-
" 20-30mm	0.6 $\pm$ 0.7	0.7 $\pm$ 0.7	0.1 $\pm$ 0.3	-
" 30-40mm	0.3 $\pm$ 0.7	0.2 $\pm$ 0.7	0.3 $\pm$ 0.5	-
" 40-50mm	0.1 $\pm$ 0.3	-	0.1 $\pm$ 0.3	-
Anisoptera larvae 0-10mm	-	-	-	-
" 10-20mm	-	-	-	0.5 $\pm$ 1.0
" 20-30mm	-	-	-	0.2 $\pm$ 0.4
" 30-40mm	-	-	-	-
" 40-50mm	-	-	-	-
Zygoptera larvae 0-10mm	-	-	0.3 $\pm$ 0.7	0.3 $\pm$ 0.7
" 10-20mm	0.1 $\pm$ 0.3	0.7 $\pm$ 0.7	0.6 $\pm$ 0.8	1.1 $\pm$ 1.2
" 20-30mm	-	-	-	-
Trichoptera larvae 0-10mm	-	-	-	-
" 10-20mm	-	-	-	-
" 20-30mm	-	-	-	-
Chironomidae larvae 0-10mm	2.6 $\pm$ 2.5	0.6 $\pm$ 0.9	26.0 $\pm$ 21.7	2.5 $\pm$ 2.8
" 10-20mm	0.3 $\pm$ 0.5	1.4 $\pm$ 1.2	12.6 $\pm$ 10.6	1.3 $\pm$ 2.1
Gastropoda 0-10mm	-	-	-	0.1 $\pm$ 0.3
" 10-20mm	-	-	-	-
" 20-30mm	-	-	-	-
Hirudinea 20-30mm	-	-	-	-
" 30-40mm	-	-	-	-
" 40-50mm	-	-	-	-
Coleoptera adult 0-5 mm	1.7 $\pm$ 1.5	3.4 $\pm$ 3.6	9.6 $\pm$ 7.8	1.8 $\pm$ 2.5
" 5-10mm	0.4 $\pm$ 0.7	1.3 $\pm$ 1.8	1.0 $\pm$ 1.5	2.4 $\pm$ 2.1
" 10-15mm	0.6 $\pm$ 1.6	0.9 $\pm$ 2.0	0.2 $\pm$ 0.4	0.5 $\pm$ 1.3
" 15-20mm	-	0.1 $\pm$ 0.3	2.7 $\pm$ 4.5	0.2 $\pm$ 0.4
Notonectidae 0-5 mm	0.5 $\pm$ 0.7	-	0.1 $\pm$ 0.3	-
" 5-10mm	-	-	0.3 $\pm$ 0.7	1.6 $\pm$ 2.2
" 10-15mm	0.2 $\pm$ 0.4	0.1 $\pm$ 0.3	-	0.5 $\pm$ 0.7
" 15-20mm	-	-	-	0.1 $\pm$ 0.3
Amphipoda 0-5 mm	-	0.2 $\pm$ 0.4	46.0 $\pm$ 36.0	6.1 $\pm$ 10.5
" 5-10mm	8.0 $\pm$ 6.7	13.0 $\pm$ 17.3	8.4 $\pm$ 6.2	60.1 $\pm$ 35.7
" 10-15mm	0.1 $\pm$ 0.3	-	-	11.7 $\pm$ 35.6
" 15-20mm	-	-	-	-
Corixidae 0-5 mm	1.6 $\pm$ 2.2	2.9 $\pm$ 3.2	28.6 $\pm$ 29.1	5.2 $\pm$ 6.2
" 5-10mm	0.2 $\pm$ 0.4	0.8 $\pm$ 1.0	2.5 $\pm$ 2.5	3.6 $\pm$ 3.8
" 10-15mm	0.1 $\pm$ 0.3	-	0.1 $\pm$ 0.3	0.3 $\pm$ 0.9
Hydracarina 0-5 mm	4.1 $\pm$ 3.5	3.4 $\pm$ 4.3	2.8 $\pm$ 1.9	8.6 $\pm$ 7.7
" 5-10mm	0.1 $\pm$ 0.3	0.6 $\pm$ 0.7	3.1 $\pm$ 2.9	1.0 $\pm$ 1.4
Ephemeroptera 0-5 mm	-	-	-	0.1 $\pm$ 0.3
" 5-10mm	-	-	0.4 $\pm$ 0.7	0.3 $\pm$ 0.5
Chaoboridae	0.8 $\pm$ 1.0	0.7 $\pm$ 1.0	0.8 $\pm$ 0.9	3.8 $\pm$ 2.9
Diptera pupae	0.3 $\pm$ 0.7	0.9 $\pm$ 0.8	0.7 $\pm$ 1.1	0.1 $\pm$ 0.3
Cladocera	123.0 $\pm$ 86.7	388.9 $\pm$ 213.3	1080.0 $\pm$ 772.5	878.5 $\pm$ 1372.2
Copepoda	8.3 $\pm$ 15.5	-	7.9 $\pm$ 18.6	1.4 $\pm$ 3.1
Anostraca	-	-	-	-
Gerridae	-	-	-	-
Gyrinidae	-	-	-	-
Collembolla	-	-	-	-
Nemtoda	-	-	-	-
Platyhelminthes	-	-	-	-
Amelida	-	-	-	-
Pelecypoda	-	-	-	-
Circulionidae	0.1 $\pm$ 0.3	-	-	-
Culicidae	-	-	-	-
Ostracoda	-	-	-	-
Ballastommatidae	-	-	-	-
Amphibia(Tadpole)	-	-	-	-

Table 12. Mean number($\bar{x} \pm SD$) of aquatic invertebrates, by taxon and size class, from activity traps set for 24 hours in Riske Creek wetland 30, summer 1985.

Taxon and size class	Date (n)			
	06/06(10)	06/09(10)	07/03(10)	07/28(10)
Coleoptera larvae 0-10mm	-	-	0.1 $\pm$ 0.3	-
" 10-20mm	-	-	0.2 $\pm$ 0.4	-
" 20-30mm	-	-	-	-
" 30-40mm	-	-	-	-
" 40-50mm	-	-	-	-
Anisoptera larvae 0-10mm	-	-	-	-
" 10-20mm	-	-	-	-
" 20-30mm	-	-	-	-
" 30-40mm	-	-	-	-
" 40-50mm	-	-	-	-
Zygoptera larvae 0-10mm	0.3 $\pm$ 0.5	0.3 $\pm$ 0.5	0.6 $\pm$ 0.5	-
" 10-20mm	0.3 $\pm$ 0.5	0.3 $\pm$ 0.7	0.2 $\pm$ 0.4	0.5 $\pm$ 0.5
" 20-30mm	-	-	-	-
Trichoptera larvae 0-10mm	-	-	-	-
" 10-20mm	-	-	-	-
" 20-30mm	-	-	-	-
Chironomidae larvae 0-10mm	1.6 $\pm$ 2.3	1.2 $\pm$ 0.9	4.0 $\pm$ 7.7	0.3 $\pm$ 0.7
" 10-20mm	-	-	0.2 $\pm$ 0.4	0.1 $\pm$ 0.3
Gastropoda 0-10mm	-	-	-	-
" 10-20mm	-	-	-	-
" 20-30mm	-	-	-	-
Hirudinea 20-30mm	-	-	-	-
" 30-40mm	-	-	-	-
" 40-50mm	-	-	-	-
Coleoptera adult 0-5 mm	0.2 $\pm$ 0.4	0.1 $\pm$ 0.3	0.1 $\pm$ 0.3	-
" 5-10mm	0.1 $\pm$ 0.3	-	0.3 $\pm$ 0.5	-
" 10-15mm	-	0.1 $\pm$ 0.3	-	-
" 15-20mm	-	-	-	-
Notonectidae 0-5 mm	0.5 $\pm$ 1.1	-	-	-
" 5-10mm	-	-	-	-
" 10-15mm	-	-	-	-
" 15-20mm	-	-	-	-
Amphipoda 0-5 mm	-	-	-	-
" 5-10mm	-	0.1 $\pm$ 0.3	0.1 $\pm$ 0.3	-
" 10-15mm	-	-	-	-
" 15-20mm	-	-	-	-
Corixidae 0-5 mm	7.7 $\pm$ 6.6	8.8 $\pm$ 8.5	24.7 $\pm$ 22.2	8.2 $\pm$ 9.4
" 5-10mm	0.6 $\pm$ 0.8	1.4 $\pm$ 4.1	15.3 $\pm$ 27.4	31.6 $\pm$ 28.0
" 10-15mm	-	-	-	-
Hydracarina 0-5 mm	0.6 $\pm$ 0.8	0.4 $\pm$ 0.8	0.1 $\pm$ 0.3	0.6 $\pm$ 0.7
" 5-10mm	-	-	0.1 $\pm$ 0.3	-
Ephemeroptera 0-5 mm	-	-	-	-
" 5-10mm	-	-	-	-
Chaoboridae	-	-	-	-
Diptera pupae	0.5 $\pm$ 1.3	0.3 $\pm$ 0.7	0.3 $\pm$ 0.5	-
Cladocera	3.4 $\pm$ 4.4	4.2 $\pm$ 6.4	-	-
Copepoda	934.5 $\pm$ 446.4	3210.0 $\pm$ 2479.9	1380.0 $\pm$ 641.3	692.0 $\pm$ 571.2
Anostraca	0.4 $\pm$ 0.7	0.2 $\pm$ 0.6	-	-
Gerridae	-	-	-	-
Gyrinidae	-	-	-	-
Collembolla	-	-	-	-
Nematoda	-	-	-	-
Platyhelminthes	-	-	-	-
Annelida	-	-	-	-
Pelecypoda	-	-	-	-
Curculionidae	-	-	-	-
Culicidae	0.1 $\pm$ 0.3	2.4 $\pm$ 5.9	-	-
Ostracoda	-	-	-	-
Ballastomidae	-	-	-	-
Amphibia(Tadpole)	-	-	-	-

Table 13. Mean number($\bar{x} \pm SD$) of aquatic invertebrates, by taxon and size class, from activity traps set for 24 hours in Riske Creek wetland 31, summer 1985.

Taxon and size class	Date (n)			
	06/07(9)	06/09(10)	07/03(10)	07/28(10)
Coleoptera larvae 0-10mm	-	-	1.2 $\pm$ 2.2	-
" 10-20mm	-	-	0.2 $\pm$ 0.6	0.1 $\pm$ 0.3
" 20-30mm	-	0.1 $\pm$ 0.3	0.1 $\pm$ 0.3	0.1 $\pm$ 0.3
" 30-40mm	-	-	-	0.1 $\pm$ 0.3
" 40-50mm	-	-	-	-
Anisoptera larvae 0-10mm	-	-	-	-
" 10-20mm	-	-	-	-
" 20-30mm	-	-	-	-
" 30-40mm	-	-	-	-
" 40-50mm	-	-	-	-
Zygoptera larvae 0-10mm	-	-	-	0.5 $\pm$ 0.5
" 10-20mm	-	-	-	-
" 20-30mm	-	-	-	-
Trichoptera larvae 0-10mm	0.4 $\pm$ 0.7	0.1 $\pm$ 0.3	-	-
" 10-20mm	-	-	-	-
" 20-30mm	-	-	-	-
Chironomidae larvae 0-10mm	-	-	-	-
" 10-20mm	-	-	-	-
Gastropoda 0-10mm	-	-	-	-
" 10-20mm	-	-	-	-
" 20-30mm	-	-	-	-
Hirudinea 20-30mm	0.2 $\pm$ 0.4	0.6 $\pm$ 0.8	1.0 $\pm$ 0.8	0.9 $\pm$ 1.5
" 30-40mm	1.0 $\pm$ 1.2	0.3 $\pm$ 0.7	0.1 $\pm$ 0.3	0.1 $\pm$ 0.3
" 40-50mm	0.1 $\pm$ 0.3	-	0.1 $\pm$ 0.3	0.3 $\pm$ 0.5
Coleoptera adult 0-5 mm	0.2 $\pm$ 0.4	0.1 $\pm$ 0.3	0.1 $\pm$ 0.3	0.1 $\pm$ 0.3
" 5-10mm	0.1 $\pm$ 0.3	0.3 $\pm$ 0.5	0.3 $\pm$ 0.5	0.2 $\pm$ 0.4
" 10-15mm	-	0.1 $\pm$ 0.3	0.3 $\pm$ 0.5	-
" 15-20mm	-	-	-	0.1 $\pm$ 0.3
Notonectidae 0-5 mm	-	-	-	-
" 5-10mm	-	-	-	-
" 10-15mm	0.1 $\pm$ 0.3	0.5 $\pm$ 1.0	-	-
" 15-20mm	-	-	-	-
Amphipoda 0-5 mm	1.2 $\pm$ 2.3	4.1 $\pm$ 6.4	42.0 $\pm$ 48.8	-
" 5-10mm	9.2 $\pm$ 11.3	26.7 $\pm$ 26.1	1.8 $\pm$ 2.6	16.4 $\pm$ 9.4
" 10-15mm	11.9 $\pm$ 11.7	5.1 $\pm$ 3.2	5.2 $\pm$ 6.2	7.2 $\pm$ 4.3
" 15-20mm	1.6 $\pm$ 2.1	-	-	0.2 $\pm$ 0.6
Corixidae 0-5 mm	-	-	0.6 $\pm$ 1.0	0.6 $\pm$ 1.0
" 5-10mm	-	0.1 $\pm$ 0.3	-	-
" 10-15mm	-	-	-	-
Hydracarina 0-5 mm	2.6 $\pm$ 2.1	0.9 $\pm$ 1.3	0.3 $\pm$ 0.9	1.1 $\pm$ 1.9
" 5-10mm	-	-	-	-
Ephemeroptera 0-5 mm	0.1 $\pm$ 0.3	-	-	0.6 $\pm$ 1.3
" 5-10mm	0.1 $\pm$ 0.3	-	-	0.8 $\pm$ 1.3
Chaoboridae	-	-	0.1 $\pm$ 0.3	2.3 $\pm$ 0.8
Diptera pupae	-	-	-	-
Cladocera	0.7 $\pm$ 1.4	0.1 $\pm$ 0.3	2.1 $\pm$ 3.8	-
Copepoda	7.8 $\pm$ 8.4	9.1 $\pm$ 9.8	16.1 $\pm$ 10.5	74.8 $\pm$ 50.8
Anostraca	-	-	-	-
Cerioda	-	-	-	-
Gyrinidae	-	-	-	-
Collembolla	-	-	-	-
Nematoda	-	-	-	-
Platyhelminthes	-	-	-	-
Annelida	-	-	-	-
Pelecypoda	-	-	-	-
Curculionidae	-	-	-	-
Ulicidae	-	-	-	-
Ostracoda	-	-	-	-
Belostomatidae	-	-	-	-
Amphibia(Tadpole)	-	-	-	-

Table 14. Dry weight (mg) of chironomidae larvae in core samples taken at 0.5m depths from selected Riske Creek wetlands, summer 1985.

Wetland Number	Repetitions (mean $\pm$ SD(n))				Total
	1	2	3		
1	5.8 $\pm$ 8.4(3)	0.5 $\pm$ 0.5(4)			2.8 $\pm$ 5.6(7)
3	2.5 $\pm$ 0.8(4)	2.0 $\pm$ 2.2(4)			2.3 $\pm$ 1.6(8)
4	22.1 $\pm$ 22.4(4)	12.6 $\pm$ 2.4(2)			18.9 $\pm$ 18.1(6)
6	14.2 $\pm$ 13.1(4)	18.9 $\pm$ 12.4(4)			16.6 $\pm$ 12.1(8)
7	0.7 $\pm$ 1.4(4)	0.9 $\pm$ 0.7(4)			0.8 $\pm$ 1.0(8)
8	25.8 $\pm$ 12.9(4)	38.3 $\pm$ 17.0(4)			32.1 $\pm$ 15.5(8)
10	8.4 $\pm$ 6.9(3)	14.7 $\pm$ 4.9(3)			11.5 $\pm$ 6.4(6)
11	15.0 $\pm$ 5.7(4)	16.8 $\pm$ 10.5(4)			15.9 $\pm$ 7.9(8)
13	13.5 $\pm$ 11.6(7)	9.8 $\pm$ 5.2(3)	36.9 $\pm$ 6.4(2)		16.5 $\pm$ 13.3(12)
14	27.5 $\pm$ 19.3(3)	23.1 $\pm$ 16.8(3)			25.3 $\pm$ 16.4(6)
15	32.1 $\pm$ 17.5(4)	27.2 $\pm$ 26.7(4)	39.1 $\pm$ 36.7(4)		32.8 $\pm$ 25.9(12)
16	1.5 $\pm$ 2.0(11)	0.5 $\pm$ 0.4(4)			1.2 $\pm$ 1.8(15)
18	13.4 $\pm$ 9.5(9)	14.3 $\pm$ 3.7(4)	19.9 $\pm$ 12.3(4)		15.1 $\pm$ 9.1(17)
19	0.5 $\pm$ 0.7(8)	1.9 $\pm$ 1.2(3)	6.6 $\pm$ 5.7(3)		2.1 $\pm$ 3.4(14)
20	23.2 $\pm$ 11.0(4)	31.4 $\pm$ 21.9(4)	72.5 $\pm$ 8.4(4)		42.4 $\pm$ 26.3(12)
22	7.4 $\pm$ 4.6(9)	40.4 $\pm$ 59.6(4)			17.6 $\pm$ 34.0(13)
23	2.5 $\pm$ 3.1(3)	0.2 $\pm$ 0.3(3)			1.4 $\pm$ 2.3(6)
24	8.1 $\pm$ 8.2(4)	13.6 $\pm$ 6.2(4)			10.9 $\pm$ 7.3(8)
26	10.9 $\pm$ 5.0(3)	10.3 $\pm$ 3.8(3)			10.6 $\pm$ 4.0(6)
28	39.4 $\pm$ 34.5(4)	45.7 $\pm$ 24.2(4)	30.7 $\pm$ 13.9(4)		38.6 $\pm$ 24.0(12)
30	16.4 $\pm$ 19.6(4)	57.8 $\pm$ 20.0(4)	50.8 $\pm$ 9.3(4)		41.7 $\pm$ 24.4(12)
31	0.6 $\pm$ 1.2(4)	1.1 $\pm$ 1.2(4)	2.5 $\pm$ 3.1(4)		1.4 $\pm$ 2.0(12)
33	7.6 $\pm$ 5.6(4)	14.7 $\pm$ 9.4(4)			11.2 $\pm$ 8.1(8)
40	7.3 $\pm$ 3.7(4)	30.4 $\pm$ 27.3(4)			18.9 $\pm$ 21.9(8)
41	0.7 $\pm$ 1.1(4)	2.8 $\pm$ 2.0(2)			1.4 $\pm$ 1.6(6)
42	22.5 $\pm$ 15.0(4)	24.0 $\pm$ 22.3(4)			23.3 $\pm$ 17.6(8)
50	2.2 $\pm$ 1.0(4)	4.2 $\pm$ 3.5(4)			3.2 $\pm$ 2.6(8)
51	3.3 $\pm$ 4.1(3)	0.8 $\pm$ 1.4(3)			2.1 $\pm$ 3.1(6)
52	1.6 $\pm$ 1.8(4)	0.4 $\pm$ 0.4(4)			1.0 $\pm$ 1.4(8)
53	8.3 $\pm$ 6.2(4)	17.7 $\pm$ 28.5(4)			13.0 $\pm$ 19.7(8)
54	3.7 $\pm$ 3.5(4)	1.6 $\pm$ 1.7(3)			2.8 $\pm$ 2.9(7)
56	8.1 $\pm$ 5.5(4)	0.0 $\pm$ 0.0(0)			8.1 $\pm$ 5.5(4)
60	0.5 $\pm$ 0.0(2)	2.1 $\pm$ 0.3(2)			1.3 $\pm$ 0.9(4)
68	9.3 $\pm$ 13.7(3)	5.5 $\pm$ 5.2(4)			7.1 $\pm$ 9.0(7)
70	3.4 $\pm$ 3.9(4)	1.5 $\pm$ 1.0(4)			2.5 $\pm$ 2.8(8)
71	9.8 $\pm$ 8.5(4)	14.8 $\pm$ 16.5(4)			12.3 $\pm$ 12.4(8)
76	0.9 $\pm$ 1.2(4)	4.2 $\pm$ 5.8(3)			2.3 $\pm$ 3.9(7)
77	3.2 $\pm$ 1.9(4)	3.3 $\pm$ 2.0(2)			3.2 $\pm$ 1.7(6)
89	20.0 $\pm$ 14.0(4)	16.8 $\pm$ 7.9(4)			18.4 $\pm$ 10.7(8)
95	5.7 $\pm$ 8.6(4)				5.7 $\pm$ 8.6(4)
101	24.1 $\pm$ 12.9(4)	30.3 $\pm$ 8.7(4)			27.2 $\pm$ 10.7(8)
102	22.7 $\pm$ 7.2(3)	27.3 $\pm$ 24.1(3)			25.0 $\pm$ 16.1(6)
104	48.0 $\pm$ 45.3(3)	33.5 $\pm$ 13.4(3)			40.8 $\pm$ 30.9(6)
110	4.3 $\pm$ 6.3(4)	3.6 $\pm$ 4.8(6)			3.9 $\pm$ 5.1(10)

Table 15. Dry weight (mg) of chironomidae larvae in core samples taken at 1.0m depths from selected Riske Creek wetlands, summer 1985.

Wetland Number	Repetitions (mean $\pm$ SD(n))				Total
	1	2	3		
1	1.7 $\pm$ 1.5(3)	1.4 $\pm$ 1.2(4)			1.5 $\pm$ 1.2(7)
3	3.8 $\pm$ 2.2(4)	1.8 $\pm$ 2.0(4)			2.8 $\pm$ 2.2(8)
4	11.8 $\pm$ 4.0(2)	8.0 $\pm$ 7.8(3)			9.5 $\pm$ 6.2(5)
6	4.4 $\pm$ 4.2(4)	4.9 $\pm$ 1.7(4)			4.7 $\pm$ 3.0(8)
7	0.0 $\pm$ 0.0(0)	0.0 $\pm$ 0.0(0)			0.0 $\pm$ 0.0(0)
8	21.5 $\pm$ 17.8(4)	56.1 $\pm$ 15.1(4)			38.8 $\pm$ 24.0(8)
10	31.7 $\pm$ 31.2(3)	61.4 $\pm$ 29.6(3)			46.6 $\pm$ 31.7(6)
11	6.3 $\pm$ 5.8(4)	11.6 $\pm$ 4.4(4)			9.0 $\pm$ 5.5(8)
13	23.7 $\pm$ 25.5(7)	14.9 $\pm$ 5.6(3)	44.6 $\pm$ 29.5(3)		26.5 $\pm$ 24.4(13)
14	12.3 $\pm$ 12.9(3)	22.4 $\pm$ 10.0(3)			17.4 $\pm$ 11.7(6)
15	6.7 $\pm$ 5.5(4)	6.1 $\pm$ 6.9(4)	0.2 $\pm$ 0.5(4)		4.3 $\pm$ 5.5(12)
16	0.7 $\pm$ 0.8(6)	0.0 $\pm$ 0.0(2)			0.5 $\pm$ 0.7(8)
18	17.1 $\pm$ 14.3(9)	22.0 $\pm$ 8.2(4)	9.7 $\pm$ 7.2(3)		16.9 $\pm$ 12.1(16)
19	0.1 $\pm$ 0.2(10)	1.1 $\pm$ 0.3(3)	0.0 $\pm$ 0.0(0)		0.3 $\pm$ 0.5(13)
20	33.2 $\pm$ 7.5(4)	37.7 $\pm$ 9.3(4)	4 9.2 $\pm$ 16.8(4)		40.0 $\pm$ 12.9(12)
22	5.0 $\pm$ 2.5(8)	7.7 $\pm$ 5.4(4)			5.9 $\pm$ 3.7(12)
23	1.4 $\pm$ 1.4(3)	1.1 $\pm$ 1.5(3)			1.3 $\pm$ 1.3(6)
24	11.8 $\pm$ 13.0(4)	4.0 $\pm$ 2.6(4)			7.9 $\pm$ 9.6(8)
26	5.7 $\pm$ 4.9(3)	6.3 $\pm$ 3.1(3)			6.0 $\pm$ 3.7(6)
28	30.7 $\pm$ 10.8(4)	26.6 $\pm$ 18.2(4)	4 1.6 $\pm$ 38.0(4)		33.0 $\pm$ 23.7(12)
30	30.4 $\pm$ 36.0(4)	33.4 $\pm$ 16.4(4)	6 2.5 $\pm$ 57.5(4)		42.1 $\pm$ 39.5(12)
31	0.0 $\pm$ 0.0(4)	1.2 $\pm$ 1.2(4)	2.8 $\pm$ 5.3(4)		1.3 $\pm$ 3.1(12)
33	0.0 $\pm$ 0.0(4)	14.7 $\pm$ 11.7(4)			7.4 $\pm$ 11.0(8)
40	5.3 $\pm$ 4.4(4)	16.7 $\pm$ 7.7(4)			11.0 $\pm$ 8.4(8)
41	0.3 $\pm$ 0.5(3)	3.8 $\pm$ 2.7(2)			1.7 $\pm$ 2.4(5)
42	2.1 $\pm$ 1.6(4)	8.8 $\pm$ 6.2(4)			5.5 $\pm$ 5.5(8)
50	3.8 $\pm$ 4.3(4)	4.3 $\pm$ 3.1(3)			4.0 $\pm$ 3.5(7)
51	0.5 $\pm$ 0.8(3)	0.9 $\pm$ 1.2(3)			0.7 $\pm$ 0.9(6)
52	0.9 $\pm$ 1.9(4)	0.0 $\pm$ 0.0(4)			0.5 $\pm$ 1.3(8)
53	18.9 $\pm$ 19.1(4)	12.2 $\pm$ 12.8(4)			15.6 $\pm$ 15.5(8)
54	3.7 $\pm$ 4.2(4)	1.1 $\pm$ 1.2(3)			2.6 $\pm$ 3.4(7)
56	1.1 $\pm$ 1.2(4)	1.3 $\pm$ 0.3(3)			1.2 $\pm$ 0.9(7)
60	0.5 $\pm$ 0.8(3)	2.4 $\pm$ 2.6(4)			1.6 $\pm$ 2.2(7)
68	5.0 $\pm$ 2.9(4)	5.3 $\pm$ 6.7(4)			5.2 $\pm$ 4.8(8)
70	1.3 $\pm$ 1.2(4)	3.4 $\pm$ 3.2(4)			2.4 $\pm$ 2.5(8)
71	12.4 $\pm$ 11.2(4)	6.4 $\pm$ 6.4(4)			9.4 $\pm$ 9.0(8)
76	2.2 $\pm$ 2.6(4)	1.8 $\pm$ 1.7(4)			2.0 $\pm$ 2.0(8)
77	1.7 $\pm$ 2.6(3)	13.5 $\pm$ 12.6(4)			8.4 $\pm$ 11.0(7)
89	16.8 $\pm$ 8.2(4)	31.3 $\pm$ 8.1(4)			24.1 $\pm$ 10.8(8)
95	0.0 $\pm$ 0.0(0)				0.0 $\pm$ 0.0(0)
101	19.2 $\pm$ 11.1(4)	13.0 $\pm$ 4.3(4)			16.1 $\pm$ 8.5(8)
102	22.1 $\pm$ 6.8(3)	13.7 $\pm$ 9.5(3)			17.9 $\pm$ 8.7(6)
104	7.6 $\pm$ 2.9(3)	28.7 $\pm$ 5.6(3)			18.2 $\pm$ 12.2(6)
110	0.0 $\pm$ 0.0(0)	0.0 $\pm$ 0.0(0)			0.0 $\pm$ 0.0(0)

Table 16. Dry weight (mg) of chironomidae larvae in core samples taken at 0.5m plus 1.0m depths of selected Riske Creek wetlands, summer 1985.

Wetland Number	Repetitions (mean $\pm$ SD(n))				Total
	1	2	3		
1	3.8 $\pm$ 5.9(6)	1.0 $\pm$ 1.0(8)			2.2 $\pm$ 4.0(14)
3	3.1 $\pm$ 1.7(8)	1.9 $\pm$ 2.0(8)			2.5 $\pm$ 1.9(16)
4	18.7 $\pm$ 18.3(6)	9.8 $\pm$ 6.2(5)			14.7 $\pm$ 14.3(11)
6	9.3 $\pm$ 10.4(8)	11.9 $\pm$ 11.1(8)			10.6 $\pm$ 10.5(16)
7	0.7 $\pm$ 1.4(4)	0.9 $\pm$ 0.7(4)			0.8 $\pm$ 1.0(8)
8	23.7 $\pm$ 14.6(8)	47.2 $\pm$ 17.6(8)			35.5 $\pm$ 19.8(16)
10	20.1 $\pm$ 23.9(6)	38.1 $\pm$ 31.8(6)			29.1 $\pm$ 28.4(12)
11	10.7 $\pm$ 7.1(8)	14.2 $\pm$ 7.9(8)			12.5 $\pm$ 7.5(16)
13	18.6 $\pm$ 19.7(14)	12.3 $\pm$ 5.6(6)	41.5 $\pm$ 21.5(5)		21.7 $\pm$ 20.1(25)
14	19.9 $\pm$ 16.9(6)	22.8 $\pm$ 12.4(6)			21.4 $\pm$ 14.2(12)
15	19.4 $\pm$ 18.1(8)	16.6 $\pm$ 21.3(8)	19.7 $\pm$ 31.8(8)		18.6 $\pm$ 23.4(24)
16	1.2 $\pm$ 1.7(17)	0.3 $\pm$ 0.4(6)			1.0 $\pm$ 1.5(23)
18	15.2 $\pm$ 11.9(18)	18.2 $\pm$ 7.2(8)	15.6 $\pm$ 11.0(7)		16.0 $\pm$ 10.5(33)
19	0.3 $\pm$ 0.5(18)	1.5 $\pm$ 0.9(6)	6.6 $\pm$ 5.7(3)		1.3 $\pm$ 2.6(27)
20	28.2 $\pm$ 10.3(8)	34.6 $\pm$ 15.9(8)	60.8 $\pm$ 17.5(8)		41.2 $\pm$ 20.2(24)
22	6.3 $\pm$ 3.8(17)	24.0 $\pm$ 42.9(8)			12.0 $\pm$ 24.8(25)
23	2.0 $\pm$ 2.3(6)	0.6 $\pm$ 1.1(6)			1.3 $\pm$ 1.9(12)
24	9.9 $\pm$ 10.3(8)	8.8 $\pm$ 6.8(8)			9.4 $\pm$ 8.5(16)
26	8.3 $\pm$ 5.2(6)	8.3 $\pm$ 3.8(6)			8.3 $\pm$ 4.3(12)
28	35.1 $\pm$ 24.1(8)	36.2 $\pm$ 22.3(8)	36.2 $\pm$ 27.1(8)		35.8 $\pm$ 23.5(24)
30	23.4 $\pm$ 27.8(8)	45.6 $\pm$ 21.4(8)	56.7 $\pm$ 38.6(8)		41.9 $\pm$ 32.1(24)
31	0.3 $\pm$ 0.8(8)	1.1 $\pm$ 1.1(8)	2.6 $\pm$ 4.1(8)		1.3 $\pm$ 2.6(24)
33	3.8 $\pm$ 5.5(8)	14.7 $\pm$ 9.8(8)			9.3 $\pm$ 9.5(16)
40	6.3 $\pm$ 3.9(8)	23.6 $\pm$ 20.0(8)			15.0 $\pm$ 16.5(16)
41	0.5 $\pm$ 0.9(7)	3.3 $\pm$ 2.0(4)			1.5 $\pm$ 1.9(11)
42	12.3 $\pm$ 14.7(8)	16.4 $\pm$ 17.2(8)			14.4 $\pm$ 15.6(16)
50	3.0 $\pm$ 3.0(8)	4.2 $\pm$ 3.1(7)			3.6 $\pm$ 3.0(15)
51	1.9 $\pm$ 3.1(6)	0.9 $\pm$ 1.2(6)			1.4 $\pm$ 2.3(12)
52	1.3 $\pm$ 1.8(8)	0.2 $\pm$ 0.3(8)			0.8 $\pm$ 1.4(16)
53	13.6 $\pm$ 14.3(8)	14.9 $\pm$ 20.7(8)			14.3 $\pm$ 17.2(16)
54	3.7 $\pm$ 3.6(8)	1.3 $\pm$ 1.3(6)			2.7 $\pm$ 3.0(14)
56	4.6 $\pm$ 5.3(8)	1.3 $\pm$ 0.3(3)			3.7 $\pm$ 4.7(11)
60	0.5 $\pm$ 0.6(5)	2.3 $\pm$ 2.0(6)			1.5 $\pm$ 1.7(11)
68	6.8 $\pm$ 8.5(7)	5.4 $\pm$ 5.5(8)			6.1 $\pm$ 6.8(15)
70	2.4 $\pm$ 2.9(8)	2.5 $\pm$ 2.4(8)			2.5 $\pm$ 2.6(16)
71	11.1 $\pm$ 9.3(8)	10.6 $\pm$ 12.4(8)			10.9 $\pm$ 10.6(16)
76	1.6 $\pm$ 2.0(8)	2.8 $\pm$ 3.8(7)			2.2 $\pm$ 2.9(15)
77	2.6 $\pm$ 2.1(7)	10.1 $\pm$ 11.2(6)			6.1 $\pm$ 8.3(13)
89	18.4 $\pm$ 10.7(8)	24.0 $\pm$ 10.7(8)			21.2 $\pm$ 10.7(16)
95	5.7 $\pm$ 8.6(4)				5.7 $\pm$ 8.6(4)
101	21.7 $\pm$ 11.4(8)	21.6 $\pm$ 11.2(8)			21.7 $\pm$ 10.9(16)
102	22.4 $\pm$ 6.3(6)	20.5 $\pm$ 18.0(6)			21.4 $\pm$ 12.9(12)
104	27.8 $\pm$ 36.3(6)	31.1 $\pm$ 9.5(6)			29.5 $\pm$ 25.4(12)
110	4.3 $\pm$ 6.3(4)	3.6 $\pm$ 4.8(6)			3.9 $\pm$ 5.1(10)

Table 17. Mean number of chironomidae larvae and corresponding dry weights (mg) in core samples taken at 0.5m depths from selected Risk Creek wetlands, summer 1985.

Wetland Number	Total (Mean $\pm$ SD(n))			Dry Weight (Mean $\pm$ SD(n))		
	0-10mm ^a	10-20mm	All	0-10mm	10-20mm	All
1	5.8 $\pm$ 12.0(7)	0.0 $\pm$ 0.0(7)	5.8 $\pm$ 12.0(7)	2.7 $\pm$ 5.6(7)	0.0 $\pm$ 0.0(7)	2.8 $\pm$ 5.6(7)
3	4.6 $\pm$ 3.7(8)	0.2 $\pm$ 0.4(8)	4.7 $\pm$ 3.5(8)	2.1 $\pm$ 1.7(8)	0.1 $\pm$ 0.3(8)	2.3 $\pm$ 1.6(8)
4	16.8 $\pm$ 9.4(6)	11.5 $\pm$ 15.4(6)	28.4 $\pm$ 22.9(6)	7.9 $\pm$ 4.8(6)	11.1 $\pm$ 14.8(6)	18.1 $\pm$ 18.1(6)
6	25.8 $\pm$ 20.3(8)	4.7 $\pm$ 3.3(8)	30.4 $\pm$ 22.8(8)	12.1 $\pm$ 9.5(8)	4.5 $\pm$ 3.2(8)	16.6 $\pm$ 12.1(8)
7	1.0 $\pm$ 1.4(8)	0.4 $\pm$ 1.1(8)	1.4 $\pm$ 1.5(8)	0.5 $\pm$ 0.7(8)	0.4 $\pm$ 1.0(8)	0.8 $\pm$ 1.0(8)
8	57.6 $\pm$ 32.4(8)	5.3 $\pm$ 4.3(8)	62.8 $\pm$ 32.4(8)	27.0 $\pm$ 15.2(8)	5.0 $\pm$ 4.1(8)	32.1 $\pm$ 15.5(8)
10	19.2 $\pm$ 15.9(6)	2.7 $\pm$ 3.7(6)	21.9 $\pm$ 14.3(6)	9.0 $\pm$ 7.5(6)	2.6 $\pm$ 3.5(6)	11.5 $\pm$ 6.4(6)
11	24.4 $\pm$ 10.9(8)	4.7 $\pm$ 3.3(8)	29.0 $\pm$ 13.7(8)	11.5 $\pm$ 5.1(8)	4.5 $\pm$ 3.2(8)	15.9 $\pm$ 7.9(8)
13	30.0 $\pm$ 25.3(12)	2.5 $\pm$ 3.6(12)	32.5 $\pm$ 26.5(12)	14.1 $\pm$ 11.9(12)	2.4 $\pm$ 3.5(12)	16.5 $\pm$ 13.3(12)
14	42.0 $\pm$ 30.5(6)	5.8 $\pm$ 4.0(6)	47.9 $\pm$ 32.4(6)	19.7 $\pm$ 14.3(6)	5.6 $\pm$ 3.9(6)	25.3 $\pm$ 16.4(6)
15	36.8 $\pm$ 31.0(12)	16.2 $\pm$ 18.8(12)	52.9 $\pm$ 40.1(12)	17.3 $\pm$ 14.6(12)	15.6 $\pm$ 18.0(12)	32.8 $\pm$ 25.9(12)
16	2.7 $\pm$ 3.7(15)	0.0 $\pm$ 0.0(15)	2.7 $\pm$ 3.7(15)	1.3 $\pm$ 1.7(15)	0.0 $\pm$ 0.0(15)	1.2 $\pm$ 1.8(15)
18	25.7 $\pm$ 15.7(17)	3.2 $\pm$ 3.1(17)	28.9 $\pm$ 17.3(17)	12.1 $\pm$ 7.4(17)	3.0 $\pm$ 3.0(17)	15.1 $\pm$ 9.1(17)
19	3.0 $\pm$ 4.0(14)	0.7 $\pm$ 2.4(14)	3.7 $\pm$ 5.3(14)	1.4 $\pm$ 1.9(14)	0.7 $\pm$ 2.3(14)	2.1 $\pm$ 3.4(14)
20	70.8 $\pm$ 43.6(12)	9.5 $\pm$ 7.7(12)	80.3 $\pm$ 49.3(12)	33.3 $\pm$ 20.5(12)	9.1 $\pm$ 7.4(12)	42.4 $\pm$ 26.3(12)
22	11.9 $\pm$ 9.9(13)	12.5 $\pm$ 31.0(13)	24.4 $\pm$ 40.0(13)	5.6 $\pm$ 2.4(6)	12.0 $\pm$ 29.8(13)	17.6 $\pm$ 34.0(13)
23	2.5 $\pm$ 5.2(6)	0.2 $\pm$ 0.4(6)	2.6 $\pm$ 5.1(6)	1.2 $\pm$ 2.4(6)	0.1 $\pm$ 0.4(6)	1.4 $\pm$ 2.3(6)
24	13.9 $\pm$ 10.9(8)	4.5 $\pm$ 4.5(8)	18.4 $\pm$ 12.7(8)	6.5 $\pm$ 5.1(8)	4.3 $\pm$ 4.3(8)	10.9 $\pm$ 7.3(8)
26	14.3 $\pm$ 10.8(6)	4.0 $\pm$ 3.5(6)	18.4 $\pm$ 9.0(6)	6.7 $\pm$ 5.1(6)	3.8 $\pm$ 3.4(6)	10.6 $\pm$ 4.0(6)
28	53.1 $\pm$ 46.5(12)	14.3 $\pm$ 9.3(12)	67.4 $\pm$ 47.9(12)	25.0 $\pm$ 21.9(12)	13.7 $\pm$ 9.0(12)	38.6 $\pm$ 24.0(12)
30	42.0 $\pm$ 33.6(12)	22.9 $\pm$ 21.7(12)	64.8 $\pm$ 37.5(12)	19.8 $\pm$ 15.8(12)	22.0 $\pm$ 20.8(12)	41.7 $\pm$ 24.4(12)
31	2.8 $\pm$ 4.3(12)	0.2 $\pm$ 0.4(8)	2.9 $\pm$ 4.3(12)	1.3 $\pm$ 2.0(12)	0.1 $\pm$ 0.3(12)	1.4 $\pm$ 2.0(12)
33	20.8 $\pm$ 13.2(8)	1.5 $\pm$ 2.3(8)	22.3 $\pm$ 15.1(8)	9.8 $\pm$ 6.2(8)	1.4 $\pm$ 2.2(8)	11.2 $\pm$ 8.1(8)
40	18.8 $\pm$ 20.9(8)	10.5 $\pm$ 13.3(8)	29.3 $\pm$ 33.1(8)	8.8 $\pm$ 9.8(8)	10.1 $\pm$ 12.8(8)	18.9 $\pm$ 21.9(8)
41	3.0 $\pm$ 3.5(6)	0.0 $\pm$ 0.0(6)	3.0 $\pm$ 3.5(6)	1.4 $\pm$ 1.7(6)	0.0 $\pm$ 0.0(6)	1.4 $\pm$ 1.6(6)
42	22.4 $\pm$ 32.4(8)	13.3 $\pm$ 12.5(8)	35.7 $\pm$ 32.6(8)	10.5 $\pm$ 15.2(8)	12.7 $\pm$ 12.0(8)	23.3 $\pm$ 17.6(8)
50	6.9 $\pm$ 5.6(8)	0.0 $\pm$ 0.0(8)	6.9 $\pm$ 5.6(8)	3.2 $\pm$ 2.6(8)	0.0 $\pm$ 0.0(8)	3.2 $\pm$ 2.6(8)
51	4.4 $\pm$ 6.5(6)	0.0 $\pm$ 0.0(6)	4.4 $\pm$ 6.5(6)	2.0 $\pm$ 3.0(6)	0.0 $\pm$ 0.0(6)	2.1 $\pm$ 3.1(6)
52	2.2 $\pm$ 3.0(8)	0.0 $\pm$ 0.0(8)	2.2 $\pm$ 3.0(8)	1.0 $\pm$ 1.4(8)	0.0 $\pm$ 0.0(8)	1.0 $\pm$ 1.4(8)
53	24.0 $\pm$ 38.7(8)	1.8 $\pm$ 2.2(8)	25.8 $\pm$ 40.3(8)	11.3 $\pm$ 18.2(8)	1.7 $\pm$ 2.1(8)	13.0 $\pm$ 19.7(8)
54	2.7 $\pm$ 1.7(7)	1.6 $\pm$ 2.5(7)	4.3 $\pm$ 3.6(7)	1.3 $\pm$ 0.8(7)	1.5 $\pm$ 2.4(7)	2.8 $\pm$ 2.9(7)
56	17.3 $\pm$ 11.8(4)	0.0 $\pm$ 0.0(4)	17.3 $\pm$ 11.8(4)	8.1 $\pm$ 5.5(4)	0.0 $\pm$ 0.0(4)	8.1 $\pm$ 5.5(4)
60	2.3 $\pm$ 1.9(4)	0.3 $\pm$ 0.5(4)	2.5 $\pm$ 1.9(4)	1.1 $\pm$ 0.9(4)	0.2 $\pm$ 0.5(4)	1.3 $\pm$ 0.9(4)
68	12.0 $\pm$ 13.0(7)	1.6 $\pm$ 3.7(7)	13.6 $\pm$ 15.8(7)	5.6 $\pm$ 6.1(7)	1.5 $\pm$ 3.6(7)	7.1 $\pm$ 9.0(7)
70	5.1 $\pm$ 6.1(8)	0.2 $\pm$ 0.4(8)	5.2 $\pm$ 6.0(8)	2.4 $\pm$ 2.9(8)	0.1 $\pm$ 0.3(8)	2.5 $\pm$ 2.8(8)
71	16.1 $\pm$ 15.3(8)	5.1 $\pm$ 6.6(8)	21.0 $\pm$ 20.4(8)	7.5 $\pm$ 7.2(8)	4.8 $\pm$ 6.4(8)	12.3 $\pm$ 12.4(8)
76	4.4 $\pm$ 7.6(7)	0.3 $\pm$ 0.5(7)	4.8 $\pm$ 7.9(7)	2.1 $\pm$ 3.6(7)	0.3 $\pm$ 0.5(7)	2.3 $\pm$ 3.9(7)
77	3.5 $\pm$ 3.7(6)	1.7 $\pm$ 1.2(6)	5.2 $\pm$ 3.4(6)	1.7 $\pm$ 1.7(6)	1.6 $\pm$ 1.2(6)	3.2 $\pm$ 3.7(6)
89	27.7 $\pm$ 16.9(8)	5.7 $\pm$ 4.5(8)	33.3 $\pm$ 19.4(8)	13.0 $\pm$ 7.9(8)	5.4 $\pm$ 4.3(8)	18.4 $\pm$ 10.7(8)
95	10.0 $\pm$ 14.3(4)	1.0 $\pm$ 2.0(4)	11.0 $\pm$ 16.3(4)	4.7 $\pm$ 6.7(4)	1.0 $\pm$ 1.9(4)	5.7 $\pm$ 8.6(4)
101	40.5 $\pm$ 21.1(8)	8.6 $\pm$ 5.1(8)	49.1 $\pm$ 21.3(8)	19.0 $\pm$ 9.9(8)	8.2 $\pm$ 4.9(8)	27.2 $\pm$ 10.7(8)
102	44.7 $\pm$ 25.2(6)	4.2 $\pm$ 6.4(6)	48.9 $\pm$ 29.2(6)	21.0 $\pm$ 11.8(6)	4.0 $\pm$ 6.1(6)	25.0 $\pm$ 16.1(6)
104	58.2 $\pm$ 70.9(6)	14.0 $\pm$ 7.6(6)	72.2 $\pm$ 68.1(6)	27.3 $\pm$ 33.3(6)	13.4 $\pm$ 7.3(6)	40.8 $\pm$ 30.9(6)
110	7.1 $\pm$ 10.0(10)	0.6 $\pm$ 1.1(10)	7.7 $\pm$ 10.4(10)	3.4 $\pm$ 4.7(10)	0.6 $\pm$ 1.1(10)	3.9 $\pm$ 5.1(10)

a - Larvae size class.

Table 10. Mean number of chironomidae larvae and corresponding dry weights (mg) in core samples taken at 1.0m depths from selected Riske Creek wetlands, summer 1985.

Wetland Number	Total (Mean $\pm$ SD(n))			Dry Weight (Mean $\pm$ SD(n))		
	0-10mm ^a	10-20mm	All	0-10mm	10-20mm	All
1	2.2 $\pm$ 2.7(7)	0.6 $\pm$ 1.1(7)	2.7 $\pm$ 2.4(7)	1.0 $\pm$ 1.3(7)	0.5 $\pm$ 1.1(7)	1.5 $\pm$ 1.2(7)
3	5.9 $\pm$ 4.8(8)	0.0 $\pm$ 0.0(8)	5.9 $\pm$ 4.8(8)	2.8 $\pm$ 2.2(8)	0.0 $\pm$ 0.0(8)	2.8 $\pm$ 2.2(8)
4	8.4 $\pm$ 8.5(5)	5.8 $\pm$ 5.4(5)	14.2 $\pm$ 9.6(5)	4.0 $\pm$ 4.0(5)	5.6 $\pm$ 5.2(5)	9.5 $\pm$ 6.2(5)
6	4.3 $\pm$ 2.8(8)	2.8 $\pm$ 1.8(8)	7.0 $\pm$ 4.4(8)	2.0 $\pm$ 1.3(8)	2.7 $\pm$ 1.8(8)	4.7 $\pm$ 3.0(8)
7	0.0 $\pm$ 0.0(0)	0.0 $\pm$ 0.0(0)	0.0 $\pm$ 0.0(0)	0.0 $\pm$ 0.0(0)	0.0 $\pm$ 0.0(0)	0.0 $\pm$ 0.0(0)
8	72.4 $\pm$ 44.4(8)	5.0 $\pm$ 3.8(8)	77.4 $\pm$ 47.6(8)	34.0 $\pm$ 20.9(8)	4.8 $\pm$ 3.7(8)	38.8 $\pm$ 24.0(8)
10	89.2 $\pm$ 68.3(6)	4.9 $\pm$ 4.6(6)	94.0 $\pm$ 67.7(6)	41.9 $\pm$ 32.1(6)	4.7 $\pm$ 4.4(6)	46.6 $\pm$ 31.7(6)
11	9.4 $\pm$ 6.2(8)	4.8 $\pm$ 3.7(8)	14.2 $\pm$ 8.6(8)	4.4 $\pm$ 2.9(8)	4.6 $\pm$ 3.5(8)	9.0 $\pm$ 5.5(8)
13	36.9 $\pm$ 40.4(13)	9.5 $\pm$ 18.2(13)	46.5 $\pm$ 42.5(13)	17.3 $\pm$ 19.0(13)	9.1 $\pm$ 17.5(13)	26.5 $\pm$ 24.4(13)
14	18.5 $\pm$ 16.4(6)	9.0 $\pm$ 7.9(6)	27.5 $\pm$ 19.4(6)	8.7 $\pm$ 7.7(6)	8.6 $\pm$ 7.6(6)	17.4 $\pm$ 11.7(6)
15	5.8 $\pm$ 10.7(8)	2.7 $\pm$ 4.5(12)	6.5 $\pm$ 9.4(12)	2.7 $\pm$ 5.0(12)	2.6 $\pm$ 4.3(12)	4.3 $\pm$ 5.5(12)
16	1.1 $\pm$ 1.7(8)	0.0 $\pm$ 0.0(8)	1.1 $\pm$ 1.7(8)	0.5 $\pm$ 0.8(8)	0.0 $\pm$ 0.0(8)	0.5 $\pm$ 0.7(8)
18	31.1 $\pm$ 24.3(16)	2.5 $\pm$ 2.0(16)	33.5 $\pm$ 24.9(16)	14.6 $\pm$ 11.4(16)	2.4 $\pm$ 2.0(16)	16.9 $\pm$ 12.1(16)
19	0.7 $\pm$ 1.0(13)	0.0 $\pm$ 0.0(13)	0.7 $\pm$ 1.0(13)	0.3 $\pm$ 0.5(13)	0.0 $\pm$ 0.0(13)	0.3 $\pm$ 0.5(13)
20	59.7 $\pm$ 16.2(12)	13.0 $\pm$ 10.1(12)	71.7 $\pm$ 19.9(12)	27.6 $\pm$ 7.6(12)	12.5 $\pm$ 9.7(12)	40.0 $\pm$ 12.9(12)
22	7.3 $\pm$ 6.3(12)	2.6 $\pm$ 1.9(12)	9.9 $\pm$ 6.8(12)	3.4 $\pm$ 3.0(12)	2.5 $\pm$ 1.9(12)	5.9 $\pm$ 3.7(12)
23	2.7 $\pm$ 2.8(6)	0.0 $\pm$ 0.0(6)	2.7 $\pm$ 2.8(6)	1.2 $\pm$ 1.3(6)	0.0 $\pm$ 0.0(6)	1.3 $\pm$ 1.3(6)
24	13.8 $\pm$ 20.3(8)	1.5 $\pm$ 1.5(8)	15.3 $\pm$ 20.3(8)	6.5 $\pm$ 9.5(8)	1.4 $\pm$ 1.5(8)	7.9 $\pm$ 9.6(8)
26	8.0 $\pm$ 5.5(6)	2.4 $\pm$ 3.4(6)	10.3 $\pm$ 5.8(6)	3.8 $\pm$ 2.6(6)	2.3 $\pm$ 3.2(6)	6.0 $\pm$ 3.7(6)
28	30.0 $\pm$ 30.4(12)	15.8 $\pm$ 14.3(12)	53.8 $\pm$ 38.7(12)	21.9 $\pm$ 14.3(12)	15.1 $\pm$ 13.7(12)	33.0 $\pm$ 23.7(12)
30	45.3 $\pm$ 43.3(12)	21.7 $\pm$ 33.9(12)	67.0 $\pm$ 56.6(12)	17.3 $\pm$ 20.3(12)	20.8 $\pm$ 32.5(12)	42.1 $\pm$ 39.5(12)
31	2.8 $\pm$ 6.6(12)	0.0 $\pm$ 0.0(8)	2.8 $\pm$ 6.6(12)	1.3 $\pm$ 3.1(12)	0.0 $\pm$ 0.0(12)	1.3 $\pm$ 3.1(12)
33	14.7 $\pm$ 22.7(8)	0.5 $\pm$ 1.0(8)	15.2 $\pm$ 23.1(8)	6.9 $\pm$ 10.7(8)	0.5 $\pm$ 0.9(8)	7.4 $\pm$ 11.0(8)
40	12.7 $\pm$ 13.7(8)	5.3 $\pm$ 3.8(8)	17.9 $\pm$ 15.4(8)	5.9 $\pm$ 6.4(8)	5.0 $\pm$ 3.7(8)	11.0 $\pm$ 8.4(8)
41	3.6 $\pm$ 5.0(5)	0.0 $\pm$ 0.0(5)	3.6 $\pm$ 5.0(5)	1.7 $\pm$ 2.3(5)	0.0 $\pm$ 0.0(5)	1.7 $\pm$ 2.4(5)
42	7.5 $\pm$ 5.2(8)	2.0 $\pm$ 3.8(8)	9.5 $\pm$ 8.1(8)	3.5 $\pm$ 2.4(8)	1.9 $\pm$ 3.6(8)	5.5 $\pm$ 5.5(8)
50	5.8 $\pm$ 5.6(7)	1.3 $\pm$ 2.0(7)	7.2 $\pm$ 6.3(7)	2.7 $\pm$ 2.6(7)	1.2 $\pm$ 1.9(7)	4.0 $\pm$ 3.5(7)
51	1.5 $\pm$ 2.0(6)	0.0 $\pm$ 0.0(6)	1.5 $\pm$ 2.0(6)	0.7 $\pm$ 1.0(6)	0.0 $\pm$ 0.0(6)	0.7 $\pm$ 0.9(6)
52	1.0 $\pm$ 2.8(8)	0.0 $\pm$ 0.0(8)	1.0 $\pm$ 2.8(8)	0.5 $\pm$ 1.3(8)	0.0 $\pm$ 0.0(8)	0.5 $\pm$ 1.3(8)
53	16.1 $\pm$ 13.9(8)	8.4 $\pm$ 10.9(8)	24.4 $\pm$ 22.5(8)	7.5 $\pm$ 6.5(8)	8.1 $\pm$ 10.4(8)	15.6 $\pm$ 15.5(8)
54	3.8 $\pm$ 6.1(7)	0.9 $\pm$ 1.0(7)	4.6 $\pm$ 6.6(7)	1.8 $\pm$ 2.9(7)	0.8 $\pm$ 0.9(7)	2.6 $\pm$ 3.4(7)
56	2.5 $\pm$ 1.9(7)	0.0 $\pm$ 0.0(7)	2.5 $\pm$ 1.9(7)	1.2 $\pm$ 0.9(7)	0.0 $\pm$ 0.0(7)	1.2 $\pm$ 0.9(7)
60	1.9 $\pm$ 1.7(7)	0.7 $\pm$ 1.5(7)	2.6 $\pm$ 3.1(7)	0.9 $\pm$ 0.8(7)	0.7 $\pm$ 1.5(7)	1.6 $\pm$ 2.2(7)
68	8.9 $\pm$ 10.1(8)	1.0 $\pm$ 1.6(8)	9.9 $\pm$ 10.0(8)	4.2 $\pm$ 4.7(8)	1.0 $\pm$ 1.5(8)	5.2 $\pm$ 4.8(8)
70	5.1 $\pm$ 5.3(8)	0.0 $\pm$ 0.0(8)	5.1 $\pm$ 5.3(8)	2.4 $\pm$ 2.5(8)	0.0 $\pm$ 0.0(8)	2.4 $\pm$ 2.5(8)
71	17.2 $\pm$ 16.1(8)	1.4 $\pm$ 2.0(8)	18.6 $\pm$ 17.6(8)	8.1 $\pm$ 7.6(8)	1.3 $\pm$ 1.9(8)	9.4 $\pm$ 9.0(8)
76	4.1 $\pm$ 4.0(8)	0.2 $\pm$ 0.4(8)	4.2 $\pm$ 4.2(8)	1.9 $\pm$ 1.9(8)	0.2 $\pm$ 0.3(8)	2.0 $\pm$ 2.0(8)
77	11.3 $\pm$ 16.2(7)	3.3 $\pm$ 4.4(7)	14.6 $\pm$ 19.7(7)	5.3 $\pm$ 7.6(7)	3.2 $\pm$ 4.2(7)	8.4 $\pm$ 11.0(7)
89	33.0 $\pm$ 17.1(8)	8.9 $\pm$ 3.6(8)	41.9 $\pm$ 19.8(8)	15.5 $\pm$ 8.1(8)	8.5 $\pm$ 3.4(8)	24.1 $\pm$ 10.8(8)
95	0.0 $\pm$ 0.0(0)	0.0 $\pm$ 0.0(0)	0.0 $\pm$ 0.0(0)	0.0 $\pm$ 0.0(0)	0.0 $\pm$ 0.0(0)	0.0 $\pm$ 0.0(0)
101	22.0 $\pm$ 14.5(8)	6.0 $\pm$ 4.8(8)	28.0 $\pm$ 15.5(8)	10.3 $\pm$ 6.8(8)	5.8 $\pm$ 4.7(8)	16.1 $\pm$ 8.5(8)
102	26.2 $\pm$ 11.2(6)	5.8 $\pm$ 4.8(6)	32.0 $\pm$ 14.3(6)	12.3 $\pm$ 5.2(6)	5.6 $\pm$ 4.6(6)	17.9 $\pm$ 8.7(6)
104	26.3 $\pm$ 17.9(6)	6.0 $\pm$ 4.4(6)	32.4 $\pm$ 21.8(6)	12.4 $\pm$ 8.4(6)	5.8 $\pm$ 4.2(6)	18.2 $\pm$ 12.2(6)
110	0.0 $\pm$ 0.0(0)	0.0 $\pm$ 0.0(0)	0.0 $\pm$ 0.0(0)	0.0 $\pm$ 0.0(0)	0.0 $\pm$ 0.0(0)	0.0 $\pm$ 0.0(0)

a - Larvae size class.

Table 19. Mean number of chironomidae larvae and corresponding dry weights (mg) in core samples taken at 0.5 plus 1.0m depths of selected Riske Creek wetlands, summer 1985.

Wetland Number	Total (Mean $\pm$ SD(n))			Dry Weight (Mean $\pm$ SD(n))		
	0-10mm ^a	10-20mm	All	0-10mm	10-20mm	All
1	4.0 $\pm$ 8.6(14)	0.3 $\pm$ 0.8(14)	4.3 $\pm$ 8.5(14)	1.9 $\pm$ 4.0(14)	0.3 $\pm$ 0.8(14)	2.2 $\pm$ 4.0(14)
2	5.2 $\pm$ 4.1(16)	0.1 $\pm$ 0.3(16)	5.3 $\pm$ 4.1(16)	2.4 $\pm$ 1.9(16)	0.0 $\pm$ 0.3(16)	2.5 $\pm$ 1.9(16)
3	13.0 $\pm$ 9.7(11)	8.9 $\pm$ 11.8(11)	21.9 $\pm$ 18.8(11)	6.1 $\pm$ 4.5(11)	8.5 $\pm$ 11.3(11)	14.7 $\pm$ 14.3(11)
4	15.0 $\pm$ 17.9(16)	3.7 $\pm$ 2.8(16)	18.7 $\pm$ 19.9(16)	7.1 $\pm$ 8.4(16)	3.6 $\pm$ 2.7(16)	10.6 $\pm$ 10.5(16)
6	1.0 $\pm$ 1.4(8)	0.4 $\pm$ 1.1(8)	1.4 $\pm$ 1.5(8)	0.5 $\pm$ 0.7(8)	0.4 $\pm$ 1.0(8)	0.8 $\pm$ 1.0(8)
7	65.0 $\pm$ 38.3(16)	5.2 $\pm$ 3.9(16)	70.1 $\pm$ 40.0(16)	30.5 $\pm$ 18.0(16)	4.9 $\pm$ 3.8(16)	35.5 $\pm$ 19.8(16)
8	54.2 $\pm$ 59.8(12)	3.8 $\pm$ 4.1(12)	58.0 $\pm$ 60.0(12)	25.5 $\pm$ 28.1(12)	3.6 $\pm$ 4.0(12)	29.1 $\pm$ 28.4(12)
10	16.9 $\pm$ 11.6(16)	4.7 $\pm$ 3.4(16)	21.6 $\pm$ 13.4(16)	7.9 $\pm$ 5.4(16)	4.5 $\pm$ 3.3(16)	12.5 $\pm$ 7.5(16)
11	33.6 $\pm$ 33.5(25)	6.2 $\pm$ 13.6(25)	39.8 $\pm$ 35.7(25)	15.8 $\pm$ 15.7(25)	5.9 $\pm$ 13.1(25)	21.7 $\pm$ 20.1(25)
13	30.3 $\pm$ 26.4(12)	7.5 $\pm$ 6.2(12)	37.7 $\pm$ 27.6(12)	14.2 $\pm$ 12.4(12)	7.2 $\pm$ 6.0(12)	21.4 $\pm$ 14.2(12)
14	20.3 $\pm$ 28.0(24)	9.4 $\pm$ 15.0(24)	29.7 $\pm$ 37.1(24)	9.5 $\pm$ 13.1(24)	9.1 $\pm$ 14.4(24)	18.6 $\pm$ 23.4(24)
15	2.1 $\pm$ 3.2(23)	0.0 $\pm$ 0.0(23)	2.1 $\pm$ 3.2(23)	1.0 $\pm$ 1.5(23)	0.0 $\pm$ 0.0(23)	1.0 $\pm$ 1.5(23)
16	28.3 $\pm$ 20.1(33)	2.8 $\pm$ 2.6(33)	31.1 $\pm$ 21.1(33)	13.3 $\pm$ 9.5(33)	2.7 $\pm$ 2.5(33)	16.0 $\pm$ 10.5(33)
18	1.9 $\pm$ 3.1(27)	0.4 $\pm$ 1.7(27)	2.3 $\pm$ 4.1(27)	0.9 $\pm$ 1.5(27)	0.4 $\pm$ 1.7(27)	1.3 $\pm$ 2.6(27)
19	64.7 $\pm$ 32.7(24)	11.2 $\pm$ 9.0(24)	76.0 $\pm$ 37.0(24)	30.4 $\pm$ 15.4(24)	10.8 $\pm$ 8.6(24)	41.2 $\pm$ 20.2(24)
20	9.7 $\pm$ 8.5(25)	7.7 $\pm$ 22.5(25)	17.4 $\pm$ 29.6(25)	4.5 $\pm$ 4.0(25)	7.4 $\pm$ 21.6(25)	12.0 $\pm$ 24.8(25)
22	2.6 $\pm$ 3.9(12)	0.1 $\pm$ 0.3(12)	2.6 $\pm$ 3.9(12)	6.5 $\pm$ 7.4(16)	2.9 $\pm$ 3.4(16)	9.4 $\pm$ 8.5(16)
23	13.8 $\pm$ 15.7(16)	3.0 $\pm$ 3.6(16)	16.8 $\pm$ 16.4(16)	5.2 $\pm$ 4.2(12)	3.0 $\pm$ 3.3(12)	8.3 $\pm$ 4.3(12)
24	11.2 $\pm$ 8.9(12)	3.1 $\pm$ 3.4(12)	14.4 $\pm$ 8.3(12)	21.4 $\pm$ 18.4(24)	14.4 $\pm$ 11.3(24)	35.8 $\pm$ 23.5(24)
26	45.5 $\pm$ 39.2(24)	15.0 $\pm$ 11.8(24)	60.6 $\pm$ 43.2(24)	20.5 $\pm$ 17.8(24)	21.4 $\pm$ 26.7(24)	41.9 $\pm$ 32.1(24)
28	43.7 $\pm$ 37.9(24)	22.3 $\pm$ 27.9(24)	65.9 $\pm$ 46.9(24)	1.3 $\pm$ 2.5(24)	0.0 $\pm$ 0.3(24)	1.3 $\pm$ 2.6(24)
30	2.8 $\pm$ 5.4(24)	0.1 $\pm$ 0.3(16)	2.8 $\pm$ 5.4(24)	8.3 $\pm$ 8.6(16)	1.0 $\pm$ 1.7(16)	9.3 $\pm$ 9.5(16)
31	17.7 $\pm$ 18.3(16)	1.0 $\pm$ 0.9(16)	18.7 $\pm$ 19.2(16)	7.4 $\pm$ 8.2(16)	7.6 $\pm$ 9.5(16)	15.0 $\pm$ 16.5(16)
33	15.7 $\pm$ 17.4(16)	7.9 $\pm$ 9.9(16)	23.6 $\pm$ 25.6(16)	1.5 $\pm$ 1.9(11)	0.0 $\pm$ 0.0(11)	1.5 $\pm$ 1.9(11)
40	3.2 $\pm$ 4.0(11)	0.0 $\pm$ 0.0(11)	3.2 $\pm$ 4.0(11)	7.0 $\pm$ 11.1(16)	7.3 $\pm$ 10.2(16)	14.4 $\pm$ 15.6(16)
41	15.0 $\pm$ 23.7(16)	7.7 $\pm$ 10.7(16)	22.6 $\pm$ 26.6(16)	3.0 $\pm$ 2.6(15)	0.6 $\pm$ 0.6(15)	3.6 $\pm$ 3.0(15)
42	6.4 $\pm$ 5.4(15)	0.6 $\pm$ 1.5(15)	7.0 $\pm$ 5.7(15)	1.4 $\pm$ 2.3(12)	0.0 $\pm$ 0.0(12)	1.4 $\pm$ 2.3(12)
50	2.9 $\pm$ 4.8(12)	0.0 $\pm$ 0.0(12)	2.9 $\pm$ 4.8(12)	0.8 $\pm$ 1.3(16)	0.0 $\pm$ 0.0(16)	0.8 $\pm$ 1.4(16)
51	1.6 $\pm$ 2.9(16)	0.0 $\pm$ 0.0(16)	1.6 $\pm$ 2.9(16)	9.4 $\pm$ 13.4(16)	4.8 $\pm$ 8.0(16)	14.3 $\pm$ 17.2(16)
52	20.0 $\pm$ 28.4(16)	5.1 $\pm$ 8.3(16)	25.1 $\pm$ 31.5(16)	1.5 $\pm$ 2.1(14)	1.2 $\pm$ 1.8(14)	2.7 $\pm$ 3.0(14)
53	3.2 $\pm$ 4.4(14)	1.2 $\pm$ 1.9(14)	4.4 $\pm$ 5.1(14)	3.7 $\pm$ 4.7(11)	0.0 $\pm$ 0.0(11)	3.7 $\pm$ 4.7(11)
54	7.9 $\pm$ 9.9(11)	0.0 $\pm$ 0.0(11)	7.9 $\pm$ 9.9(11)	0.9 $\pm$ 0.8(11)	0.5 $\pm$ 1.1(11)	1.5 $\pm$ 1.7(11)
56	2.0 $\pm$ 1.7(11)	0.5 $\pm$ 2.7(15)	2.5 $\pm$ 2.6(11)	4.9 $\pm$ 5.3(15)	1.2 $\pm$ 2.6(15)	6.1 $\pm$ 6.8(15)
60	10.3 $\pm$ 11.2(15)	1.3 $\pm$ 2.7(15)	11.6 $\pm$ 12.6(15)	2.4 $\pm$ 2.6(16)	0.0 $\pm$ 0.3(16)	2.5 $\pm$ 2.6(16)
68	5.0 $\pm$ 5.5(16)	0.1 $\pm$ 0.3(16)	5.1 $\pm$ 5.5(16)	7.8 $\pm$ 7.1(16)	3.1 $\pm$ 4.9(16)	10.9 $\pm$ 10.6(16)
70	16.6 $\pm$ 15.1(16)	3.2 $\pm$ 5.1(16)	19.8 $\pm$ 18.4(16)	2.0 $\pm$ 2.7(15)	0.2 $\pm$ 0.4(15)	2.2 $\pm$ 2.9(15)
71	4.2 $\pm$ 5.7(15)	0.2 $\pm$ 0.5(15)	4.4 $\pm$ 6.0(15)	3.6 $\pm$ 5.8(13)	2.4 $\pm$ 3.1(13)	6.1 $\pm$ 8.3(13)
76	7.7 $\pm$ 12.4(13)	2.5 $\pm$ 3.3(13)	10.2 $\pm$ 14.9(13)	14.3 $\pm$ 7.8(16)	7.0 $\pm$ 4.1(16)	21.2 $\pm$ 10.7(16)
77	30.4 $\pm$ 16.7(16)	7.3 $\pm$ 4.3(16)	37.6 $\pm$ 19.5(16)	4.7 $\pm$ 6.7(4)	1.0 $\pm$ 1.9(4)	5.7 $\pm$ 8.6(4)
89	10.0 $\pm$ 14.3(4)	1.0 $\pm$ 2.0(4)	11.0 $\pm$ 16.3(4)	14.7 $\pm$ 9.4(16)	7.0 $\pm$ 4.8(16)	21.7 $\pm$ 10.9(16)
95	31.3 $\pm$ 19.9(16)	7.3 $\pm$ 5.0(16)	38.5 $\pm$ 21.0(16)	16.6 $\pm$ 9.8(12)	4.8 $\pm$ 5.3(12)	21.4 $\pm$ 12.9(12)
101	35.4 $\pm$ 20.9(12)	5.0 $\pm$ 5.5(12)	40.5 $\pm$ 23.7(12)	19.9 $\pm$ 24.5(12)	9.6 $\pm$ 6.9(12)	29.5 $\pm$ 25.4(12)
102	42.3 $\pm$ 52.0(12)	10.0 $\pm$ 7.2(12)	52.3 $\pm$ 52.5(12)	3.4 $\pm$ 4.7(10)	0.6 $\pm$ 1.1(10)	3.9 $\pm$ 5.1(10)
104	7.1 $\pm$ 10.0(10)	0.6 $\pm$ 1.1(10)	7.7 $\pm$ 10.4(10)			
110						

a - Larvae size class.

Table 20. Dry weights (mg) of selected aquatic invertebrate taxa^a in sweep net samples taken from Riske Creek wetlands, summer 1984.

Wetland Number	Shore Stations		Open Water Stations	
	(Mean $\pm$ SD(n))		(Mean $\pm$ SD(n))	
3	74.4	$\pm$ 58.1(32)	41.2	$\pm$ 32.7(32)
4	188.6	$\pm$ 245.8(32)	53.6	$\pm$ 46.5(32)
6	297.3	$\pm$ 215.3(32)	16.4	$\pm$ 29.5(32)
7	272.8	$\pm$ 131.4(32)	124.5	$\pm$ 118.8(12)
10	430.8	$\pm$ 426.7(44)	234.2	$\pm$ 121.2(24)
11	445.1	$\pm$ 309.8(32)	17.0	$\pm$ 19.2(32)
13	3067.5	$\pm$ 2833.5(32)	375.7	$\pm$ 489.8(32)
14	1222.0	$\pm$ 476.6(32)	12.8	$\pm$ 12.5(24)
15	675.9	$\pm$ 354.2(32)	143.0	$\pm$ 76.1(32)
16	9.5	$\pm$ 6.9(32)	10.2	$\pm$ 9.4(32)
23	89.6	$\pm$ 66.0(32)	111.3	$\pm$ 63.4(24)
24	495.7	$\pm$ 369.2(44)	99.1	$\pm$ 49.9(24)
26	138.8	$\pm$ 100.0(48)	130.1	$\pm$ 70.1(32)
28	1712.2	$\pm$ 1290.5(12)	133.0	$\pm$ 73.7(16)
30	256.8	$\pm$ 255.0(32)	1.4	$\pm$ 2.0(32)
31	52.5	$\pm$ 48.1(16)	32.2	$\pm$ 32.1(24)
33	49.6	$\pm$ 52.3(32)	2.8	$\pm$ 2.8(32)
41	64.8	$\pm$ 83.3(32)	1.7	$\pm$ 2.1(32)
42	127.5	$\pm$ 186.8(48)	27.4	$\pm$ 21.7(32)
50	65.4	$\pm$ 80.0(34)	28.4	$\pm$ 23.7(32)
52	190.4	$\pm$ 86.0(32)	168.5	$\pm$ 55.5(32)
56	144.3	$\pm$ 120.0(32)	14.7	$\pm$ 8.6(32)
60	108.1	$\pm$ 96.6(16)	175.1	$\pm$ 95.3(32)
70	507.7	$\pm$ 311.0(24)	103.2	$\pm$ 56.6(32)
71	262.7	$\pm$ 175.3(32)	180.8	$\pm$ 107.4(32)
76	39.5	$\pm$ 34.1(32)	95.2	$\pm$ 58.0(32)
89	471.9	$\pm$ 183.6(8)	4.5	$\pm$ 3.1(12)
102	2234.2	$\pm$ 1068.3(32)	279.2	$\pm$ 287.0(32)
104	784.5	$\pm$ 413.4(32)	63.2	$\pm$ 52.1(32)
110	244.8	$\pm$ 127.7(32)	10.3	$\pm$ 28.3(32)

a - Includes 14 taxa as listed in Table 3.

Table 21. Dry weights (mg) from mean number of selected aquatic invertebrate taxa^a, by vegetation cover, from sweep net (0.5m mesh) samples of selected Biske Creek wetlands, summer 1984.

Wetland no.	VEGETATION COVER ^b										TOTAL ^c			
	>0-1 %		>1-5 %		>5-25 %		>25-50 %		>50-100 %					
	Mean ± SD(n)	TD	Mean ± SD(n)	TD	Mean ± SD(n)	TD	Mean ± SD(n)	TD	Mean ± SD(n)	TD	Mean ± SD(n)	TD		
3	30.1 ± 20.9(24)	6	0.0 ± 0.0(0)	0	58.5 ± 27.2(4)	3	65.1 ± 45.8(12)	10	55.2 ± 34.7(16)	13	134.8 ± 77.0(8)	11	57.8 ± 19.0(64)	14
4	110.1 ± 199.1(48)	9	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	153.8 ± 96.2(16)	9	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	121.1 ± 151.2(64)	11
6	6.8 ± 4.9(32)	6	0.0 ± 0.0(0)	0	43.7 ± 54.0(6)	6	0.0 ± 0.0(0)	1	249.5 ± 66.2(8)	11	395.1 ± 205.7(20)	12	153.9 ± 61.4(64)	14
7	38.7 ± 32.5(6)	7	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	262.9 ± 126.0(38)	13	232.3 ± 108.9(44)	13
10	234.2 ± 119.0(24)	6	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	122.0 ± 37.1(4)	6	304.0 ± 0.0(1)	5	522.2 ± 364.0(39)	12	395.0 ± 213.0(64)	12
11	17.0 ± 20.2(32)	5	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	394.8 ± 152.5(8)	10	205.7 ± 110.1(8)	0	590.0 ± 327.6(16)	10	231.1 ± 86.0(64)	11
13	375.7 ± 472.0(32)	8	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	4267.6 ± 3174.0(16)	9	1067.4 ± 791.4(16)	11	1721.6 ± 851.3(64)	11
14	12.8 ± 9.5(24)	5	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	1222.0 ± 406.6(32)	10	703.8 ± 270.1(56)	11
15	143.0 ± 68.0(32)	6	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	675.9 ± 334.8(32)	11	409.5 ± 170.9(64)	11
16	9.9 ± 8.2(64)	5	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	9.9 ± 8.2(64)	5
23	106.8 ± 68.0(29)	7	0.0 ± 0.0(0)	0	64.9 ± 30.9(8)	11	103.0 ± 63.9(28)	14	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	55.9 ± 40.4(56)	14
24	99.1 ± 48.5(24)	8	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	289.1 ± 118.4(4)	9	677.7 ± 292.7(12)	10	601.8 ± 332.2(28)	11	419.4 ± 147.4(64)	12
26	127.6 ± 96.7(32)	11	0.0 ± 0.0(0)	0	33.1 ± 6.6(2)	6	163.3 ± 100.1(38)	12	200.4 ± 103.9(4)	0	0.0 ± 0.0(0)	0	147.2 ± 65.3(76)	13
28	133.0 ± 60.6(16)	9	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	120.2 ± 0.0(1)	7	0.0 ± 0.0(0)	0	1457.3 ± 1100.3(23)	12	894.2 ± 679.2(40)	12
30	55.1 ± 123.7(40)	4	0.0 ± 0.0(0)	0	134.0 ± 70.5(8)	4	560.2 ± 275.6(8)	3	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	129.1 ± 99.3(64)	4
31	30.1 ± 33.2(39)	9	0.0 ± 0.0(0)	0	36.0 ± 19.6(13)	8	76.4 ± 51.6(13)	8	94.9 ± 51.8(5)	0	0.0 ± 0.0(0)	0	44.4 ± 21.5(70)	11
33	26.2 ± 34.5(64)	6	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	26.2 ± 34.5(64)	6
41	33.2 ± 66.6(64)	4	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	33.2 ± 66.6(64)	4
42	42.7 ± 33.5(43)	9	0.0 ± 0.0(0)	0	6.4 ± 0.0(1)	1	55.3 ± 40.3(4)	7	290.9 ± 195.4(16)	10	0.0 ± 0.0(0)	0	105.0 ± 53.8(64)	11
50	27.5 ± 22.6(53)	11	0.0 ± 0.0(0)	0	110.5 ± 47.3(7)	10	165.9 ± 134.5(7)	11	464.0 ± 0.0(1)	5	304.7 ± 118.4(4)	8	70.5 ± 22.6(72)	12
52	160.2 ± 61.6(36)	12	0.0 ± 0.0(0)	0	140.3 ± 0.0(1)	8	111.0 ± 66.9(5)	13	190.3 ± 76.2(16)	13	203.0 ± 64.5(16)	13	172.5 ± 37.2(74)	14
56	23.0 ± 22.2(40)	9	0.0 ± 0.0(0)	0	93.8 ± 58.9(9)	10	202.6 ± 85.3(8)	9	190.5 ± 76.9(6)	0	509.2 ± 0.0(1)	5	79.5 ± 20.7(64)	10
60	150.4 ± 119.9(54)	11	0.0 ± 0.0(0)	0	205.7 ± 115.9(2)	4	327.9 ± 160.1(9)	10	104.5 ± 161.0(4)	10	320.9 ± 123.1(3)	8	191.3 ± 92.7(72)	14
70	223.0 ± 164.7(43)	13	0.0 ± 0.0(0)	1	97.4 ± 0.0(1)	4	126.1 ± 45.4(4)	10	642.5 ± 351.9(15)	14	582.6 ± 0.0(1)	5	310.9 ± 130.0(64)	15
71	209.2 ± 94.2(23)	9	0.0 ± 0.0(0)	0	100.4 ± 53.1(9)	10	0.0 ± 0.0(0)	0	453.9 ± 230.6(8)	10	190.9 ± 75.9(24)	11	221.8 ± 53.9(64)	12
76	66.3 ± 59.5(63)	10	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	130.9 ± 0.0(1)	5	364.5 ± 175.0(2)	6	0.0 ± 0.0(0)	0	76.3 ± 57.0(66)	10
89	12.5 ± 17.5(14)	8	0.0 ± 0.0(0)	0	99.3 ± 63.6(2)	8	323.2 ± 203.6(12)	11	396.7 ± 231.8(7)	11	487.1 ± 234.6(17)	10	294.4 ± 95.4(52)	11
95	0.0 ± 0.0(8)	8	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	611.2 ± 284.0(48)	14	611.2 ± 284.0(48)	14
102	279.2 ± 285.5(32)	4	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	2234.2 ± 1091.1(32)	7	1256.7 ± 563.9(64)	8
104	63.2 ± 45.6(32)	7	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	691.5 ± 399.2(8)	11	815.5 ± 302.5(24)	11	423.9 ± 153.6(64)	11
110	2.9 ± 0.2(16)	3	0.0 ± 0.0(0)	0	17.8 ± 27.4(16)	3	0.0 ± 0.0(0)	0	241.1 ± 109.7(24)	4	255.8 ± 72.7(8)	3	127.6 ± 42.7(64)	4

^a - Includes 14 taxa as listed in Table 3.

^b - Estimate of % cover by volume.

^c - Poreonomic diversity.

Table 22. Dry weights (mg) of selected aquatic invertebrate taxa^a in sweep net samples taken at 0.5m depths from shore stations of selected Risk Creek wetlands, summer 1985.

Wetland Number	Repetitions (mean $\pm$ SD(n))				Total
	1	2	3		
1	24.3	22.7(16)	117.9	49.2(16)	71.1
3	23.9	19.5(16)	26.9	25.8(16)	25.4
4	209.5	270.3(16)	1608.7	1771.8(16)	909.1
6	233.3	448.7(16)	200.7	137.8(16)	217.0
7	40.0	28.1(16)	97.3	46.1(16)	68.7
8	299.0	263.2(16)	524.2	264.7(16)	411.6
10	541.1	233.2(12)	532.6	258.1(12)	536.9
11	1.6	3.2(16)	163.2	84.0(16)	82.4
13	330.2	181.1(12)	1146.8	751.6(12)	800.5
14	500.6	362.6(12)	1812.3	779.6(12)	1156.5
15	264.7	107.6(14)	434.1	275.6(16)	365.3
16	7.2	10.1(16)	2.3	2.7(16)	4.8
18	324.5	275.5(8)	214.1	73.2(16)	360.2
19	101.5	102.7(9)	186.2	88.8(16)	235.1
20	1004.7	621.9(8)	981.8	638.2(16)	1335.6
22	213.6	167.6(12)	180.5	110.4(16)	194.7
23	125.0	83.0(12)	85.1	37.1(12)	105.1
24	311.1	161.3(16)	257.2	135.2(16)	284.2
26	23.1	17.8(12)	75.7	68.2(12)	49.4
28	154.5	51.6(8)	459.1	216.6(16)	578.3
30	15.5	20.3(8)	62.5	50.0(16)	47.8
31	30.8	45.2(8)	26.7	18.7(16)	59.9
33	8.4	7.2(16)	8.0	6.4(16)	8.2
40	175.0	153.6(16)	476.5	1059.1(16)	325.8
41	1.6	2.6(16)	10.3	11.7(16)	6.0
42	216.7	120.6(16)	80.8	63.6(16)	148.8
50	48.9	60.5(16)	31.4	30.7(16)	40.2
51	26.2	19.5(12)	19.9	8.6(12)	23.1
52	158.3	91.8(16)	68.7	44.7(16)	113.5
53	50.0	31.7(16)	215.3	109.3(16)	132.7
54	349.1	618.3(16)	378.8	200.5(16)	364.0
56	253.5	179.4(16)	87.9	75.0(16)	170.7
60	71.8	54.0(12)	64.7	55.8(16)	67.7
68	148.0	101.8(16)	236.6	95.9(16)	192.3
70	211.7	140.0(16)	400.9	222.4(16)	306.3
71	548.2	321.7(16)	426.8	196.8(16)	487.5
76	26.3	13.7(16)	17.4	13.4(16)	21.9
77	522.7	423.9(16)	136.2	92.6(16)	329.5
89	91.0	44.9(16)	606.6	746.1(16)	348.8
95	150.7	85.0(16)	245.0	208.4(16)	150.7
101	139.0	84.4(16)	49.9	48.0(12)	192.0
102	90.3	44.5(12)	1790.1	1285.8(12)	70.1
104	1217.1	1245.8(12)	1790.1	30.5(16)	1503.6
110	29.1	31.8(16)	24.7		26.9

^a - Includes 14 taxonomic groups as listed in Table 3

Table 23. Dry weights (mg) of selected aquatic invertebrate taxa^a in sweep net samples taken at 1.0m depths from shore stations of selected Riske Creek wetlands, summer 1985.

Wetland Number	Repetitions (mean $\pm$ SD(n))					Total
	1	2	3			
1	31.7 $\pm$	43.7(16)	84.7 $\pm$	81.1(16)	58.2 $\pm$	69.5(32)
3	21.5 $\pm$	25.0(16)	24.4 $\pm$	28.2(16)	23.0 $\pm$	26.3(32)
4	184.3 $\pm$	211.9(16)	972.8 $\pm$	964.8(16)	578.6 $\pm$	795.3(32)
6	14.6 $\pm$	20.7(16)	109.0 $\pm$	117.8(16)	61.8 $\pm$	96.0(32)
8	145.4 $\pm$	126.8(16)	552.7 $\pm$	353.7(16)	349.1 $\pm$	333.4(32)
10	352.5 $\pm$	201.3(12)	174.9 $\pm$	115.6(12)	263.7 $\pm$	184.4(24)
11	0.6 $\pm$	0.9(16)	37.9 $\pm$	34.4(16)	19.3 $\pm$	30.5(32)
13	103.9 $\pm$	120.8(12)	638.6 $\pm$	473.6(12)	437.6 $\pm$	464.8(36)
14	182.0 $\pm$	188.9(12)	1204.3 $\pm$	879.2(12)	693.2 $\pm$	812.0(24)
15	446.3 $\pm$	411.8(16)	59.8 $\pm$	41.8(16)	226.3 $\pm$	301.9(48)
16	1.4 $\pm$	1.8(16)			1.4 $\pm$	1.8(16)
18	217.6 $\pm$	314.1(16)	197.3 $\pm$	192.4(16)	223.0 $\pm$	240.8(48)
19	143.8 $\pm$	194.3(16)			143.8 $\pm$	194.3(16)
20	1036.0 $\pm$	1114.3(16)	904.0 $\pm$	847.1(16)	1147.5 $\pm$	955.0(48)
22	88.6 $\pm$	147.4(12)	91.9 $\pm$	102.3(16)	90.5 $\pm$	121.1(28)
23	107.4 $\pm$	133.2(12)	118.1 $\pm$	61.7(12)	112.8 $\pm$	101.7(24)
24	384.3 $\pm$	394.5(16)	180.5 $\pm$	180.2(16)	282.4 $\pm$	319.0(32)
26	15.1 $\pm$	9.3(12)	69.6 $\pm$	64.6(12)	42.4 $\pm$	53.0(24)
28	39.7 $\pm$	32.3(16)	267.3 $\pm$	203.0(16)	386.6 $\pm$	473.5(48)
30	17.3 $\pm$	40.7(16)	12.0 $\pm$	11.9(16)	12.4 $\pm$	24.6(48)
31	27.4 $\pm$	74.1(16)	24.8 $\pm$	36.7(16)	59.3 $\pm$	104.6(48)
33	2.6 $\pm$	2.4(16)	4.0 $\pm$	2.5(16)	3.3 $\pm$	2.5(32)
40	81.5 $\pm$	112.6(16)	197.5 $\pm$	294.5(16)	139.5 $\pm$	227.1(32)
41	0.2 $\pm$	0.3(16)	3.4 $\pm$	4.9(16)	1.8 $\pm$	3.8(32)
42	93.3 $\pm$	61.2(16)	181.5 $\pm$	196.2(16)	137.4 $\pm$	149.8(32)
50	53.5 $\pm$	64.2(16)	41.9 $\pm$	45.5(16)	47.7 $\pm$	55.1(32)
51	79.3 $\pm$	102.5(12)	24.8 $\pm$	21.0(12)	52.1 $\pm$	77.5(24)
52	91.7 $\pm$	103.1(16)	68.5 $\pm$	99.2(16)	80.1 $\pm$	100.2(32)
53	107.7 $\pm$	108.1(16)	117.7 $\pm$	58.6(16)	112.7 $\pm$	85.7(32)
54	308.0 $\pm$	357.7(16)	367.3 $\pm$	399.9(16)	337.7 $\pm$	374.4(32)
56	27.7 $\pm$	14.7(16)	24.3 $\pm$	16.9(16)	26.0 $\pm$	15.7(32)
60	53.1 $\pm$	73.5(12)	78.3 $\pm$	82.4(16)	67.5 $\pm$	78.3(28)
68	157.2 $\pm$	183.8(16)	186.5 $\pm$	154.0(16)	176.9 $\pm$	167.1(32)
70	355.7 $\pm$	453.4(16)	563.8 $\pm$	574.4(16)	459.8 $\pm$	519.9(32)
71	736.5 $\pm$	817.4(16)	510.5 $\pm$	365.3(16)	623.5 $\pm$	633.3(32)
76	36.7 $\pm$	22.7(16)	34.4 $\pm$	32.6(16)	35.6 $\pm$	27.7(32)
77	293.8 $\pm$	383.6(16)	123.0 $\pm$	150.2(16)	208.4 $\pm$	299.4(32)
89	69.9 $\pm$	54.6(16)	118.8 $\pm$	147.3(16)	94.4 $\pm$	112.1(32)
101	41.0 $\pm$	50.9(16)	41.4 $\pm$	47.0(16)	41.2 $\pm$	48.2(32)
102	7.1 $\pm$	7.0(12)	8.3 $\pm$	8.0(12)	7.7 $\pm$	7.4(24)
104	141.4 $\pm$	112.6(12)	404.0 $\pm$	565.6(12)	272.7 $\pm$	420.8(24)

a - Includes 14 taxonomic groups as listed in Table 3

Table 24. Dry weights (mg) of selected aquatic invertebrate taxa^a in sweep net samples taken at open water stations from selected Riske Creek wetlands, summer 1985.

Wetland Number	Repetitions (mean $\pm$ SD(n))					Total
	1	2	3			
1	7.0	8.2(8)	5.3	3.2(8)	6.2	6.1(16)
3	31.3	20.4(8)	13.2	12.6(8)	22.3	18.9(16)
4	88.0	34.0(8)	157.5	68.4(8)	122.8	63.3(16)
6	3.7	4.9(8)	20.2	18.3(8)	12.0	15.5(16)
8	19.8	8.7(8)	91.8	67.5(8)	55.8	59.5(16)
10	102.8	47.1(4)	206.2	167.0(4)	154.5	126.3(8)
11	0.9	1.2(8)	7.0	2.9(8)	4.0	3.8(16)
13	37.9	21.3(4)	143.4	89.6(4)	96.7	77.8(12)
14	51.7	14.2(4)	140.6	57.0(4)	96.2	61.1(8)
15	177.3	191.8(4)	54.3	82.4(8)	132.0	156.2(20)
16	1.9	0.8(4)	4.5	4.4(8)	3.6	3.8(12)
18	45.6	19.2(8)	11.4	4.1(8)	87.6	89.9(24)
19	102.3	87.7(4)	192.1	125.7(8)	175.9	116.8(20)
20	22.1	16.2(8)	6.3	3.0(8)	40.1	49.5(24)
22	6.9	4.1(4)	15.8	10.4(8)	12.8	9.6(12)
23	72.3	27.3(4)	32.8	15.1(4)	52.6	29.4(8)
24	326.6	310.2(8)	108.4	117.6(8)	217.5	253.1(16)
26	9.4	3.7(4)	46.1	13.2(4)	27.8	21.6(8)
28	33.3	18.3(8)	23.4	7.9(8)	26.3	12.6(24)
30	1.6	1.4(8)	0.4	0.6(8)	1.3	2.3(24)
31	1.8	2.6(8)	2.4	1.2(8)	10.2	14.6(24)
33	2.6	2.7(8)	2.7	1.6(8)	2.7	2.1(16)
40	22.8	15.9(8)	26.2	18.4(8)	24.5	16.7(16)
41	1.5	3.2(8)	1.1	1.5(8)	1.3	2.4(16)
42	97.0	56.1(8)	38.4	19.0(8)	67.7	50.5(16)
50	24.5	8.3(8)	47.8	41.1(8)	36.2	31.1(16)
51	42.5	31.0(4)	32.2	27.9(4)	37.4	27.9(8)
52	61.9	38.0(8)	26.2	57.3(8)	44.1	50.5(16)
53	158.3	68.4(8)	100.2	57.3(8)	129.3	67.9(16)
54	48.1	18.4(8)	79.6	67.6(8)	59.9	52.0(16)
56	17.5	7.0(8)	45.9	29.3(8)	31.7	25.3(16)
60	93.4	94.7(8)	92.3	80.5(8)	92.9	84.9(16)
68	12.7	10.1(8)	114.8	74.6(8)	63.8	73.7(16)
70	40.5	27.1(8)	48.9	68.3(8)	44.7	50.4(16)
71	265.3	247.1(8)	260.1	290.4(8)	262.7	260.5(16)
76	35.8	31.6(8)	67.3	72.7(8)	51.6	56.5(16)
77	27.4	12.2(8)	18.2	11.5(8)	22.8	12.4(16)
89	4.2	3.4(8)	7.2	5.4(8)	5.7	4.6(16)
101	2.8	3.1(8)	1.3	1.5(8)	2.1	2.5(16)
102	3.4	5.4(4)	2.7	1.6(4)	3.1	3.7(8)
104	95.7	39.5(4)	166.3	146.5(4)	131.0	106.3(8)
110	16.8	38.6(8)	26.2	35.7(8)	21.5	36.2(16)

a - Includes 14 taxonomic groups as listed in Table 3

b - open water stations were away from shore near the centre and deepest parts of the wetlands

Table 25. Dry weight(g/mg) from mean number of selected aquatic invertebrate taxa^a, by vegetation cover, from sweep net(0.5m mesh) samples of selected Hilske Creek wetlands, summer 1985.

Wetland no.	VEGETATION COVER ^b										TOTAL	
	Mean ± SD(n)	TD	Mean ± SD(n)	TD	Mean ± SD(n)	TD	Mean ± SD(n)	TD	Mean ± SD(n)	TD	Mean ± SD(n)	TD
1.	12.3 ± 2.1(18)	2	0.0 ± 0.0(0)	0	28.8 ± 2.5(12)	7	28.4 ± 3.7(14)	8	48.4 ± 28.5(1)	0	23.9 ± 8.5(48)	11
2.	4.3 ± 2.1(18)	2	0.0 ± 0.0(0)	0	28.8 ± 2.5(12)	7	28.4 ± 3.7(14)	8	155.3 ± 55.7(1)	0	62.1 ± 28.5(48)	11
3.	24.8 ± 2.1(18)	2	2.6 ± 2.1(2)	2	22.3 ± 2.2(5)	2	24.3 ± 2.5(13)	10	0.0 ± 0.0(0)	0	24.4 ± 11.7(48)	11
4.	11.5 ± 10.5(18)	10	11.1 ± 4.1(4)	6	11.1 ± 4.1(4)	6	47.5 ± 25.3(13)	10	0.0 ± 0.0(0)	0	24.4 ± 11.7(48)	11
5.	64.4 ± 57.5(24)	5	0.0 ± 0.0(0)	0	112.7 ± 0.9(1)	6	165.1 ± 114.4(1)	11	0.0 ± 0.0(0)	0	175.2 ± 85.1(48)	11
6.	404.4 ± 875.0(15)	11	0.0 ± 0.0(0)	0	264.6 ± 65.7(2)	9	0.0 ± 0.0(0)	0	1209.4 ± 665.4(1)	11	1664.1 ± 564.5(48)	11
7.	5.8 ± 7.0(23)	8	0.0 ± 0.0(0)	0	36.7 ± 21.0(3)	4	142.3 ± 51.5(5)	9	537.3 ± 528.5(1)	10	127.3 ± 79.1(48)	11
8.	14.1 ± 2.1(2)	2	0.0 ± 0.0(0)	0	39.1 ± 0.9(1)	6	47.2 ± 28.4(5)	10	176.8 ± 18.4(1)	0	48.0 ± 12.6(15)	9
9.	0.0 ± 0.0(0)	0	107.6 ± 31.0(2)	2	91.1 ± 46.4(5)	10	499.5 ± 160.7(5)	11	249.3 ± 105.3(10)	12	101.7 ± 56.2(48)	12
10.	49.1 ± 27.2(18)	8	0.0 ± 0.0(0)	0	193.1 ± 213.2(1)	10	331.5 ± 116.7(5)	11	785.3 ± 385.3(10)	12	558.5 ± 205.2(11)	13
11.	102.8 ± 102.8(1)	1	234.7 ± 0.0(1)	1	56.5 ± 0.0(1)	6	362.3 ± 263.4(1)	8	491.5 ± 157.2(11)	11	337.7 ± 99.1(28)	10
12.	1.1 ± 2.1(48)	6	0.0 ± 0.0(0)	0	56.7 ± 37.2(5)	9	158.8 ± 92.1(15)	11	114.3 ± 79.5(1)	0	0.0 ± 0.0(0)	0
13.	47.4 ± 22.0(11)	6	0.0 ± 0.0(0)	0	120.8 ± 0.0(1)	6	394.3 ± 61.3(1)	6	319.4 ± 152.5(10)	10	191.5 ± 50.6(28)	11
14.	112.1 ± 84.5(8)	6	0.0 ± 0.0(0)	0	164.4 ± 0.0(1)	6	530.6 ± 231.5(5)	12	885.3 ± 462.8(5)	10	656.2 ± 178.5(28)	11
15.	148.2 ± 95.3(12)	7	0.0 ± 0.0(0)	0	219.5 ± 0.0(1)	7	562.3 ± 162.3(5)	11	657.5 ± 224.1(5)	12	1312.9 ± 346.5(28)	13
16.	301.6 ± 307.6(21)	7	0.0 ± 0.0(0)	0	103.3 ± 0.0(1)	6	279.1 ± 74.2(7)	8	345.6 ± 134.7(1)	11	128.9 ± 249.4(34)	11
17.	177.5 ± 171.4(24)	7	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0
18.	5.1 ± 3.1(26)	5	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0
19.	56.0 ± 38.0(18)	5	0.0 ± 0.0(0)	0	352.9 ± 100.4(3)	7	170.2 ± 114.2(6)	8	650.7 ± 641.2(1)	7	201.3 ± 55.6(32)	9
20.	12.3 ± 1.1(13)	10	0.0 ± 0.0(0)	0	84.1 ± 26.1(2)	5	181.5 ± 54.2(6)	10	289.6 ± 101.0(10)	13	164.9 ± 34.0(48)	11
21.	13.4 ± 10.6(9)	10	0.0 ± 0.0(0)	0	26.9 ± 24.7(5)	10	72.0 ± 52.1(2)	7	312.0 ± 131.7(2)	6	124.9 ± 54.0(28)	13
22.	54.4 ± 0.0(1)	1	173.0 ± 0.0(1)	1	67.9 ± 40.3(2)	5	145.1 ± 63.4(3)	7	237.3 ± 124.0(5)	12	100.1 ± 39.0(24)	13
23.	59.0 ± 46.2(12)	8	0.0 ± 0.0(0)	0	109.7 ± 125.4(2)	5	0.0 ± 0.0(0)	0	792.1 ± 240.2(2)	6	774.7 ± 437.4(32)	10
24.	9.3 ± 4.1(8)	5	0.0 ± 0.0(0)	0	245.2 ± 0.0(1)	3	677.0 ± 208.7(3)	6	160.5 ± 56.5(1)	9	155.6 ± 287.5(48)	11
25.	21.3 ± 22.2(13)	7	0.0 ± 0.0(0)	0	129.3 ± 27.3(1)	4	131.1 ± 181.3(1)	6	236.2 ± 167.2(6)	9	130.5 ± 52.0(28)	10
26.	51.8 ± 39.2(10)	7	0.0 ± 0.0(0)	0	127.3 ± 133.1(2)	5	97.0 ± 59.6(1)	12	182.8 ± 147.1(13)	13	110.0 ± 28.0(28)	13
27.	61.2 ± 0.0(1)	1	0.0 ± 0.0(0)	0	56.9 ± 21.9(1)	6	253.2 ± 102.5(1)	8	435.4 ± 289.5(14)	10	342.5 ± 114.0(48)	11
28.	10.4 ± 14.5(26)	5	0.0 ± 0.0(0)	0	24.4 ± 15.2(4)	8	103.0 ± 48.4(8)	11	132.2 ± 56.2(5)	11	64.9 ± 13.6(28)	12
29.	27.6 ± 14.0(19)	3	0.0 ± 0.0(0)	0	42.8 ± 0.0(1)	3	116.2 ± 52.1(8)	10	140.1 ± 60.7(1)	10	66.0 ± 17.5(32)	10
30.	22.2 ± 9.7(8)	6	0.0 ± 0.0(0)	0	207.3 ± 127.3(1)	10	211.0 ± 249.8(1)	10	387.8 ± 154.3(1)	11	295.2 ± 81.5(48)	11
31.	11.4 ± 29.6(12)	3	0.0 ± 0.0(0)	0	79.0 ± 18.9(1)	5	61.2 ± 0.0(1)	6	0.0 ± 0.0(0)	0	12.9 ± 28.9(24)	5
32.	14.4 ± 17.5(32)	5	61.2 ± 79.5(6)	6	50.2 ± 18.0(2)	2	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0

^a - Includes 14 taxa as listed in Table 3.
^b - Estimate of % cover by volume.
^c - Percent diversity.
^d - Wetland survey dates: 1-June, 2-early July, 3-late July.

Table 25(cont.). Dry weights(lm) from mean number of selected aquatic invertebrate taxa^a, by vegetation cover, from sweep net(0.5m mesh) samples of selected Blaise Creek wetlands, summer 1995.

Wetland no.	VEGETATION COVER ^b										TOTAL									
	Mean	SD(n)	TP ^c	>0-1 %	Mean	SD(n)	TP	>1-5 %	Mean	SD(n)	TP	>5-15 %	Mean	SD(n)	TP	>15-100 %	Mean	SD(n)	TP	TP
31.1	6.9 ± 14.2(20)	2	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
31.2	15.9 ± 1.7(15)	6	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
31.3	21.6 ± 14.2(15)	6	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
33.1	4.3 ± 3.3(40)	5	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
33.2	4.3 ± 3.3(40)	5	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
40.1	47.9 ± 77.9(27)	11	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
41.1	3.9 ± 2.1(40)	2	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
41.2	3.9 ± 2.1(40)	2	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
42.1	114.0 ± 71.6(23)	10	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
42.2	44.9 ± 22.6(15)	10	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
50.1	27.3 ± 15.0(25)	5	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
51.1	21.2 ± 15.0(25)	5	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
51.2	21.2 ± 15.0(25)	5	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
52.1	50.0 ± 35.5(18)	11	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
52.2	28.5 ± 35.5(18)	11	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
53.1	120.4 ± 116.9(15)	7	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
54.1	16.3 ± 22.6(18)	7	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
56.1	37.1 ± 33.9(27)	10	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
60.1	23.5 ± 21.5(18)	10	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
64.1	22.1 ± 41.9(14)	7	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
70.1	25.9 ± 32.9(18)	10	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
71.1	36.3 ± 63.9(12)	10	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
76.1	32.1 ± 22.9(18)	10	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
77.1	42.3 ± 26.9(17)	9	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
80.1	16.5 ± 16.5(17)	9	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
95.1	0.0 ± 0.0(0)	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
100.1	15.3 ± 15.3(18)	9	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
102.1	6.2 ± 7.1(15)	5	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
104.1	125.9 ± 90.4(16)	6	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0
110.1	6.2 ± 5.4(14)	7	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0.0 ± 0.0(0)	0.0 ± 0.0(0)	0	0	0

a - Includes 14 taxa as listed in Table 3.
b - Estimate of % cover by volume.
c - Taxonomic diversity.
d - Wetland survey dates: 1-June, 2-early July, 3-late July.

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